# 

# Miva Merchant 9

Module API Reference Guide

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# CHAPTER 1 Introduction

# About Miva Merchant API

The Miva Merchant API comprises tools for third party developers to create extensions to the Miva Merchant shopping cart. It includes a robust collection of functions to leverage into modules that can be provided to Miva Merchant end users.

Miva Merchant is an inherently modular system from top to bottom. Most of the important functionality of an online store can be augmented or replaced by user-installable modules. These modules interact with the core Miva Merchant software using the Module API.

Much of the default functionality of Miva Merchant is itself packaged into modules, and available as part of the Limited Source Kit (LSK). (See *Requirements* on page 8 for instructions on obtaining the LSK.) The contents of the LSK provide concrete examples of the use and implementation of the functions described in this document.

# Intended Audience

This guide is intended for application developers with web application development experience. A working knowledge of HTML and CSS is required. Familiarity with web scripting languages in general and Miva Script in particular is assumed. MySQL development skills and secure web scripting practices are highly recommended.

# Purpose of This Guide

This guide, in conjunction with the other API reference guides listed in *Recommended Reading* on page 10, provides a comprehensive reference to the elements that make up the Miva Merchant API. It describes the purpose of each available function, its syntax, parameters and return values. It is a guide for developers to use as a resource for designing and building third party modules to plug into the Miva Merchant shopping cart software.

This guide is not a user's manual for the Miva Merchant software. Refer to the *Miva Merchant User Reference Guide* and *The Official Guide to Miva Merchant* for information on the Miva Merchant administration interface.

# Requirements

To get started with the Miva Merchant API, you will need a functioning Miva Merchant installation (minimum version 5.00 PR5 or above) and a MivaSQL or MySQL database installation.

Recommendations regarding which database to use are beyond the scope of this guide. In general, MivaSQL is appropriate for smaller stores with limited customization needs. MySQL is more powerful, faster and easier to customize. MivaSQL is easier to maintain, however it is not PCI compliant and is therefore discouraged for high-volume stores.

Building Miva Merchant modules requires the Miva Merchant Empresa script interpreter and the Miva Merchant Script Compiler. You may optionally install and run Miva Merchant Mia instead of (or in addition to) Empresa in a Windows localhost environment. This allows you to develop your Miva Merchant modules offline without a live web server.

Empresa, Mia, the Script Compiler and the Limited Source Kit can be downloaded from the Miva Merchant website free of charge here:

http://www.miva.com/support/downloads

# Development Accounts

Development Accounts are made available to active developers for the specific purpose of developing modules and add-ons to Miva Merchant. For information about Miva Merchant's Developer Account program, see the following link:

http://www.miva.com/docs/development-account

# **Document Conventions**

The following typographic conventions are used in this guide:

**Bold** – Used to emphasize new terms or product features.

**Bold sans serif** – Used for syntax descriptions and filenames.

**Bold italic sans serif** – Used for user-defined input.

Italic – Used for external document references.

Blue san serif underline - Used for clickable URL links.

Blue italic – Used for clickable cross-reference links to other sections within the document.

Monospace – Used for code examples and screen output.

Italic monospace - Used for user-defined values in code examples.

# **Terminology**

**Admin** – The administration interface, **admin.mvc**, and the files it calls.

**API** – A collection of functions written in Miva Script that interface with the Miva Merchant software.

**Feature** – A set of functionality that a module provides – for example, batch reports, payment or shipping.

**Miva Merchant** – The storefront application, **merchant.mvc**, and all the files it calls (such as those governing the user interface and various features).

**Miva Merchant Empresa** – The server-side engine for Miva Script. A script interpreter that runs on Windows and \*nix web servers.

**Miva Merchant Limited Source Kit (LSK)** – Source code comprised of a collection of script files containing functions that can be implemented by third party developers.

# Chapter 1: Introduction Recommended Reading

**Miva Merchant Mia** – A portable, standalone version of the Empresa engine that runs on a Windows localhost server. No other server software is required unless POP and SMTP functions are required. Provides a development environment for software developers to run and test their work on a Windows desktop.

**Miva Merchant Script Compiler** – Compiler for Miva Script that creates executable .mvc files to be interpreted by Empresa or Mia.

**Miva Script** – Proprietary server side scripting language used for API implementation.

**Module** – An implementation of one or more module API features.

**Store Morph Technology (SMT)** – Miva Merchant Page Templates, Items, Entities and the Miva Merchant Template Language collectively make up the **Store Morph Technology**.

**User Interface (UI)** – The portion of the application that displays the screens the shopper sees and with which he or she interacts.

**XML Provisioning** – A format for importing/exporting data in Miva Merchant that allows advanced store setup through an XML file.

# Recommended Reading

The following documents provide useful information for developers. All can be found on the Miva Merchant Documentation web page under **Technical Documentation & Developer Resources**.

#### http://www.miva.com/docs

- *Miva Merchant API Reference Guides* A collection of API reference guides (including this one). See the Documentation web page for the latest versions.
- *Miva Merchant Database Reference Manual* A comprehensive reference to all the tables in the Miva Merchant API, including table relationship diagrams.
- Miva Script Guide
- Miva Script online documentation (<u>www.mivascript.com</u>)
- Miva Merchant 5.5 API documentation (Doxygen document)
- Miva Merchant Module Functions Reference Manual (text file)
- Miva Merchant Empresa & Script Compiler online help (http://docs.mivamerchant.com/en-US/merchant/WebHost/webhelp/web host resources.htm)

Additionally, there are several end user documents available at the top of the Miva Merchant Documentation web page under **End User Documentation**. Of particular interest is the *User Reference Guide* which can be found under the **Miva Merchant Reference Guides** heading. There are currently versions available for Miva Merchant 5.5 PR8 and Miva Merchant 9.

*The Official Guide to Miva Merchant 9* by Pamela Hazelton can be downloaded for free at the following link:

http://apps.miva.com/product/MEDIASI-MM9EBOOK.html

# Technical Support

Access to technical support, patches and downloads, the community forums, Miva Merchant documentation, video tutorials and other resources can be found at the following link:

http://www.miva.com/support

The Miva Merchant Knowledgebase can be accessed at the following link:

https://support.miva.com/supportsuite/index.php?/default/Knowledgebase/List

The Miva Merchant Community Forums can be accessed at the following link:

http://extranet.miva.com/forums/index.php

Chapter 1: Introduction *Technical Support* 

# CHAPTER 2 API Overview

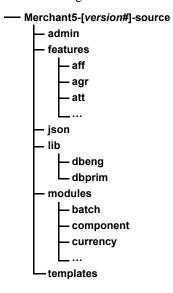
Miva Merchant provides a library of functions for third party developers to implement to produce plug-in modules for the Miva Merchant software. These functions allow developers to customize the Administrative User Interface, the Wizard User Interface, the Database API, the Module API and Miva Merchant's built-in Features (e.g. the Inventory System, the Template System, the Shopping Interface, etc.)

The functions are contained in the Miva Merchant Limited Source Kit (LSK). The following chapters describe these functions, grouped by the primary feature type. For reference, all available functions are listed alphabetically in *Appendix B: API Functions* on page 259 along with their module and location.

# Miva Merchant Limited Source Kit

The Miva Merchant LSK contains the source code for a library of functions that developers can implement to create third party modules to extend and customize Miva Merchant's capabilities. The LSK also includes core modules that make up the Miva Merchant UI. Developers may refer to these files for examples of implementations of the API.

The LSK is organized with the following directory structure:



- The admin directory contains functions for Admin and UI.
- The **features** directory holds the bulk of the functions to be leveraged by third party developers.
- The **json** directory contains data structures and arrays.
- The **lib** directory contains functions relating to global variables, encryption/decryption and the database API.
- The modules directory contains the core components for the Miva Merchant storefront.
- The templates directory holds templates for various Miva Merchant UIs.

# Implementing a Module API Feature

Miva Merchant modules are typically written in a combination of Miva Script and HTML and have a specific structure — a comment block at the top followed by the function **Module\_Description**, which assigns the local module variables. The rest of the module contains the functions that make up the module. The file itself has a ".mv" extension.

#### The ".mv" File

The **Module\_Description** function is required in every module. It assigns the code and name for the module. It also declares which module features are to be implemented.

**Important:** All functions for the features you implement must be included in the module. Otherwise, runtime errors will occur when the module is compiled.

The functions contained in a feature are described in the *API Reference Guides*. They can also be found in the API document on the Miva Merchant website here:

#### http://www.miva.com/docs/api

The following code example shows a complete module, mmlsk-ex-system.mv, which can be found in the LSK under modules/system. Note that all of the functions included in the features system and vis\_system are included in the module.

```
<MVCOMMENT>
|
| Miva Merchant v5.x
|
| This file and the source codes contained herein are the property of
| Miva Merchant, Inc. Use of this file is restricted to the specific terms and
| conditions in the License Agreement associated with this file. Distribution
| of this file or portions of this file for uses not covered by the License
| Agreement is not allowed without a written agreement signed by an officer of
| Miva Merchant, Inc.
|
| Copyright 1998-2011 Miva Merchant, Inc. All rights reserved.
| http://www.mivamerchant.com
|
| Prefix : MER-SYS-EXP-
| Next Error Code: 1
| </MVCOMMENT>
```

## Chapter 2: API Overview Implementing a Module API Feature

```
<MvFUNCTION NAME = "Module Description" PARAMETERS = "module var"</pre>
 STANDARDOUTPUTLEVEL = "">
    <MvASSIGN NAME = "1.module:code"
                                            VALUE = "mmlsk-ex-system">
    <MvASSIGN NAME = "l.module:name"
                                            VALUE = "System Extensions Example">
    <MvASSIGN NAME = "l.module:provider" VALUE = "Miva Merchant">
    <MvASSIGN NAME = "1.module:version"</pre>
                                            VALUE = "5.5000">
    <MvASSIGN NAME = "l.module:api_ver"</pre>
                                            VALUE = "5.00">
    <MvASSIGN NAME = "1.module:features" VALUE = "system, vis_system">
</MVFUNCTION>
<MvFUNCTION NAME = "Module_System_Tabs" PARAMETERS = "module var"</pre>
STANDARDOUTPUTLEVEL = "">
    <MvFUNCTIONRETURN VALUE = "EXMP:System Extension Example">
</MVFUNCTION>
<MvFUNCTION NAME = "Module System Content" PARAMETERS = "module var, tab,</pre>
load fields" STANDARDOUTPUTLEVEL = "text, html, compresswhitespace">
    <MvIF EXPR = "\{ 1.tab EQ 'EXMP' \} ">
               <MvEVAL EXPR = "{ 'Hello from System Extension Content Settings.'</pre>
               } " >
    </MVIF>
    <MvFUNCTIONRETURN VALUE = 1>
</MvFUNCTION>
<MvFUNCTION NAME = "Module_System_Validate" PARAMETERS = "module var"</pre>
STANDARDOUTPUTLEVEL = "">
    <MvEVAL EXPR = "{ 'Hello from System Extension Validate Settings.<br/>' }">
    <MvFUNCTIONRETURN VALUE = 1>
</MVFUNCTION>
<MvFUNCTION NAME = "Module System Update" PARAMETERS = "module var"</pre>
STANDARDOUTPUTLEVEL = "">
    <MvEVAL EXPR = "{ 'Hello from System Extension Update Settings.<br>' }">
    <MvFUNCTIONRETURN VALUE = 1>
</MVFUNCTION>
<MvFUNCTION NAME = "SystemModule_Screen" PARAMETERS = "module var, screen"</pre>
STANDARDOUTPUTLEVEL = "">
    <MvEVAL EXPR = "{ 'Hello from System Extension Runtime Screen.<br>>' }">
    <MvFUNCTIONRETURN VALUE = "1">
</MVFUNCTION>
<MvFUNCTION NAME = "SystemModule_Action" PARAMETERS = "module var, action"</pre>
 STANDARDOUTPUTLEVEL = "">
    <MvEVAL EXPR = "{ 'Hello from System Extension Runtime Action.<br>>' }">
    <MvFUNCTIONRETURN VALUE = "1">
```

## **Creating a New Function**

When you write a new function, you must declare it via the Miva Script <mvFUNCTION> tag:

```
<MvFUNCTION NAME = "Module_Install_Store"
PARAMETERS = "module var">
    ...
    code
    ...
</MvFUNCTION>
```

# Calling a Function From the API

There are two methods for calling functions. The **<MvDO>** tag allows you to call a function in an external file declared with **<MvFUNCTION>**.

#### **Example**

```
<MvDO FILE = "{ g.Module_Library_DB }"
NAME = "l.return_code"
VALUE = "{ Product_Insert( l.product ) }">
```

Alternatively, you can call an external function via the **<MvASSIGN>** tag.

#### **Example**

```
<MvASSIGN NAME = "l.return_code"

VALUE = "{ [ g.Module_Library_DB ]
  .Product Insert( l.product ) }">
```

In the preceding examples, the **<MvDO>** and **<MvASSIGN>** tags achieve exactly the same goal — they call the **Product\_Insert** function from **lib/dbeng/products.mv** and store the return value in a local variable called **return\_code**. The global variable **g.Module\_Library\_DB** contains the path to **lib/dbeng/products.mv**.

#### **Global Variables**

The **lib/config.mv** file configures global variables for use by the Miva Merchant API. These variables provide access to the various **features/** files. Scripts that call into the API must execute **lib/config.mv** (via **<MvDO>** or **<MvASSIGN>**) prior to calling API functions.

# Chapter 2: API Overview Building a New Module — the Easy Way

**Important:** Variables are initialized in **config.mv** with relative paths, for example, **g.Library\_DB**. When developers use these variables in their modules, they should reference them by the absolute path, e.g., **g.Module\_Library\_DB**, as in our example above.

## Uploading a Module to Miva Merchant

Once you have finished editing your module, save it to the code name specified by the **I.module.code** variable and compile it with the Miva Merchant Script Compiler via the following command:

#### mvc my\_module.mv

If there are no errors, a "my\_module.mvc" file will be created. Upload it to your store via Add Modules in the Miva Merchant admin. The ".mvc" file will be placed in the appropriate directory (e.g., www/mm5/5.00/modules/system) and the module will be activated.

# Building a New Module — the Easy Way

The easiest way to create a new module is to take an existing module, strip out the unnecessary content, then add new functionality. Choose a module from the LSK that employs the same core feature(s) as the module you are building.

In the following example, we will create a new currency format that displays in your store in red, blinking text with the currency symbol, "N\$".

All modules require the **Module\_Description** function at the top. The following code excerpt is from the LSK module **mmlsk-usmoney.mv** under **modules/currency**:

We will create a new module with the name, "New Currency Formatting" (code name: "newmoney"). It will require the feature **currency**.

Starting from the module mmlsk-usmoney.mv, keep Module\_Description but assign new values to I.module:code and I.module:name. Assign the required features to I.module:features.

The currency feature contains three functions: CurrencyModule\_AddFormatPlainText,
CurrencyModule\_AddFormatPlainTextShort and CurrencyModule\_AddFormatting. All three functions must be in your module.

If your module requires other features, they can be included in a comma-separated list. For example:

```
<MvASSIGN NAME = "l.module:features" VALUE = "currency, util, vis_util">
```

In this case, your module would require the three **currency** functions listed above plus the eight functions that comprise the **util** and **vis\_util** features.

We can re-purpose the **CurrencyModule\_AddFormatting** function from **mmlsk-usmoney.mv** to add red, blinking text to the currency in our store by stripping out the code in **mmlsk-usmoney.mv** and substituting the appropriate HTML code. The dollar sign (\$) is used as a concatenation operator.

**Note:** Attribute values are surrounded by double quotes ("") in Miva Script. To specify an HTML attribute with double quotes (e.g., **<font color="red">>**) inside an expression, precede the quote mark (") with a backslash (\) as shown above.

The other two currency functions, CurrencyModule\_AddFormatPlainText and CurrencyModule AddFormatPlainTextShort, can be duplicated as is from mmlsk-usmoney.mv.

# Chapter 2: API Overview Building a New Module — the Easy Way

Save the file as **newmoney.mv** and compile it. Then upload the resultant **newmoney.mvc** file to your store via the Miva Merchant admin, as described in *Uploading a Module to Miva Merchant* on page 18.

To implement the new currency format, go to **Edit Store: Settings** in the admin. Select "New Currency Formatting" from the **Currency Formatting** drop-down list. When you view the store in your browser after applying this change, you will see the red blinking text with a currency symbol "N\$" everywhere currency is visible on the store pages.

# CHAPTER 3 Module API

The **modules** directory contains examples of the core Miva Merchant software. It is included in the LSK for third party developers to use as a guide for creating new modules. The Module API comprises a library of functions for this purpose. This chapter describes the Module API functions.

**Note:** Functions that are new to Module API version 5.60 and above and functions that have been deprecated include the supported API version.

Refer to *Implementing a Module API Feature* on page 15 for examples of function calls into the Module API.

# All Modules

All modules require the following function.

# **Module\_Description**

Miva Merchant, the Admin and the UI all call the **Module\_Description** function at several different points. It provides information that identifies the module and describes some of its characteristics, such as a list of features it implements. One uses this function to load this information into a structure with the name "module". Use the "var" option on the parameter to pass variables to the calling program by reference. The actual value returned by **MvFuncReturn** does not contain the main information.

#### Syntax

```
Module_Description ( module var )
```

#### **Parameters**

module

The **Module** structure used to pass variables to the calling program

#### Return Value

NULL

#### **Example**

In the preceding example, a module calls the **Module\_Description** function and passes variables ("I.module:code", "I.module.name", etc.) into the **Module** structure.

# Batch Report Feature (batchreport)

Miva Merchant supports the creation of batches of orders. Batches can be run daily, weekly, or at will. The **Batch Report** feature (**batchreport**) creates a summary report for the specified batch order. The feature has complete control over what information is used and how it is displayed.

The **batchreport** feature contains the following functions:

- BatchReportModule\_Order\_Reports
- BatchReportModule\_Report
- BatchReportModule Run OrderList
- BatchReportModule\_Run\_ShipmentList
- BatchReportModule\_Shipment\_Reports

#### BatchReportModule\_Order\_Reports

This function returns a list of order reports to Miva Merchant generated by this module. The module puts information about each supported report into the **reports** parameter.

#### Supported API Version

5.70 and higher

#### Syntax

#### BatchReportModule\_Order\_Reports( module var, reports var )

#### **Parameters**

**module** The **Module** record of the current module

**reports** An array with each element in the array having the following members:

code – A string that uniquely identifies the report to the module (it can be anything)

**name** – A descriptive name that will be displayed to the user

#### Return Value

The number of reports that the module supports (how many entries it put into the **reports** array parameter)

#### BatchReportModule\_Report

The BatchReportModule\_Report generates an order batch report. The module determines the format and content of the output. Typically, a module would load a list of Order records using OrderList\_Load\_Batch(). Examples of implementations of BatchReportModule\_Report can be found in the modules/batch directory.

#### **Chapter 3: Module API**

#### Batch Report Feature (batchreport)

#### Syntax

#### BatchReportModule\_Report( module var, batch\_id )

#### **Parameters**

module The Module record of the current module batch\_id The unique ID of the batch to be output

#### Return Value

1 on success
0 on error

## BatchReportModule\_Run\_OrderList

This function is called to generate and output a report on a particular list of orders. The orders can be loaded from an order batch or directly selected by the user. The module generates whatever content is appropriate for the report using the specified orders.

#### Supported API Version

5.70 and higher

## Syntax

# BatchReportModule\_Run\_OrderList( module var, report\_code, orders var, order\_count )

#### **Parameters**

**module** The **Module** record of the current module.

**report\_code** The report code to generate. This parameter comes from the **code** member of the

reports array returned by the module in BatchReportModule\_Order\_Reports.

orders An array of Order records, one for each order to be included in the report.

**order\_count** The number of **Order** records in the **orders** array.

#### Return Value

1 on success0 on error

## BatchReportModule\_Run\_ShipmentList

This function is called to generate and output a report on a particular list of shipments. The shipments can be loaded from a shipment batch or directly selected by the user. The module generates whatever content is appropriate for the report using the specified shipments.

#### Supported API Version

5.70 and higher

#### **Syntax**

BatchReportModule\_Run\_ShipmentList( module var, report\_code, shipments var, shipment\_count )

#### **Parameters**

module The Module record of the current module.

**report\_code** The report code to generate. This parameter comes from the **code** member of the

reports array returned by the module in BatchReportModule\_Shipment\_Reports.

**shipments** An array of shipment records, one for each shipment to be included in the report.

**shipment\_count** The number of shipment records in the **shipments** array.

#### Return Value

1 on success
0 on error

## BatchReportModule\_Shipment\_Reports

Returns a list of shipment reports to Miva Merchant generated by this module. The module puts information about each supported report into the **reports** parameter.

#### Supported API Version

5.70 and higher

#### **Syntax**

BatchReportModule\_Shipment\_Reports( module var, reports var )

#### **Parameters**

**module** The **Module** record of the current module

**reports** An array with each element in the array having the following members:

**code** – A string that uniquely identifies the report to the module (it can be anything)

**name** – A descriptive name that will be displayed to the user

#### Return Value

The number of reports that the module supports (how many entries it put into the **reports** array parameter)

# Box Packing Feature (boxpacking)

Most modern shipping calculation APIs require the dimensions of the package(s) being shipped to be known ahead of time. The boxpacking feature allows modules to be built to implement store-specific rules for determining how many and what size boxes will be used to ship a **Basket**, **OrderShipment**, or other collection of shippable items.

The underlying shipping system maintains a list of available boxes with their dimensions (width, length, height), and the **boxpacking** module API provides a mechanism for the box packing module to capture additional configuration information that is required for whatever algorithm the module implements. For example, the pack by quantity module provides an additional box-level field that indicates the maximum quantity of items that may be put in each box. The **boxpacking** feature contains the following functions:

- BoxPackingModule\_Box\_Delete
- BoxPackingModule\_Box\_Field
- BoxPackingModule\_Box\_Fields
- BoxPackingModule\_Box\_Insert
- BoxPackingModule\_Box\_Invalid
- BoxPackingModule\_Box\_Prompt
- BoxPackingModule\_Box\_Provision
- BoxPackingModule\_Box\_Update
- BoxPackingModule\_Box\_Validate
- BoxPackingModule\_Pack\_Items

#### BoxPackingModule\_Box\_Delete

This function is called when a box is deleted to allow the module to clean up any data that references the box.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

#### BoxPackingModule\_Box\_Delete( module var, box\_id )

#### **Parameters**

module The Module record of the current module box\_id The unique ID of the box that was deleted

#### Return Value

1 on success

0 on error

## BoxPackingModule\_Box\_Field

This function draws HTML input element(s) required for configuration of a single field from the list returned by **BoxPackingModule\_Box\_Fields**. The module should output the required HTML directly.

## Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

BoxPackingModule\_Box\_Field( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The ID of the field to output. This ID comes from the comma separated list returned

by BoxPackingModule\_Box\_Fields.

#### Return Value

Ignored

## BoxPackingModule Box Fields

This function returns a comma separated list of the field identifiers for module-specific fields that should be present for a given box.

## Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

BoxPackingModule\_Box\_Fields( module var, box var )

#### **Parameters**

module The Module record of the current module

box The Box record being edited or NULL if a box is being added

#### **Chapter 3: Module API**

#### Box Packing Feature (boxpacking)

#### Return Value

A comma separated list of field identifiers

## BoxPackingModule\_Box\_Insert

This function is called when a new box is created so that the module can store any module controlled box fields.

## Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

#### BoxPackingModule\_Box\_Insert( module var, box var )

#### **Parameters**

module The Module record of the current module

box A Box record containing the newly created box

#### Return Value

1 on success
0 on error

## BoxPackingModule\_Box\_Invalid

When BoxPackingModule\_Box\_Validate returns 0, this function is called for each field to determine which field(s) should be displayed in the invalid state.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

#### BoxPackingModule\_Box\_Invalid( module var, field\_id )

#### **Parameters**

module The Module record of the current module field\_id The identifier of the field being queried

#### Return Value

1 if the specified field is invalid

**0** if the specified field is valid

# BoxPackingModule\_Box\_Prompt

This function is called for each field returned by **BoxPackingModule\_Box\_Fields** to obtain the prompt (descriptive text displayed to the left of the field).

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

#### BoxPackingModule\_Box\_Prompt( module var, field\_id )

#### **Parameters**

module The Module record of the current module field\_id The identifier of the field being queried

#### Return Value

Textual prompt. HTML is permitted.

## BoxPackingModule\_Box\_Provision

This function is called when a box is created using the **Box\_Add** provisioning tag and the **BoxPackingSettings>** tag is present. The module is expected to implement provisioning for whatever settings are normally maintained on a box-by-box basis.

**Important:** All boxpacking modules must implement this function.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

BoxPackingModule\_Box\_Provision( module var, box var, provide\_xml var )

#### **Parameters**

module The Module record of the current module

box The newly created Box record

provide\_xml Provisioning-parsed XML from the BoxPackingSettings tag

#### Return Value

None. This function must not return a value. Provisioning errors should be logged using **PRV\_LogMessage** or **PRV\_LogError**.

#### **Chapter 3: Module API**

Box Packing Feature (boxpacking)

## BoxPackingModule\_Box\_Update

This function is called when a box is modified so that the module can store any changes to the module controlled box fields.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

#### BoxPackingModule\_Box\_Update( module var, box var )

#### **Parameters**

module The Module record of the current module

**box** The **Box** record being updated

#### Return Value

1 on success0 on error

## BoxPackingModule\_Box\_Validate

This function is called to validate module-provided box fields when creating or updating a box record from the administrative interface.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

#### BoxPackingModule\_Box\_Validate( module var, box var )

#### **Parameters**

**module** The **Module** record of the current module

box The Box record being updated, or NULL if a new box is being created

#### Return Value

1 if all module-provided fields are valid

2 if any module-provided field is invalid

**Note:** Validation failures may be reported via **BoxPackingModule\_Box\_Invalid** or by calling the **FieldError** function.

## BoxPackingModule\_Pack\_Items

This function is called to build a packaging solution using currently enabled boxes for a specified set of items.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

# BoxPackingModule\_Pack\_Items( module var, items var, item\_count, packages var )

#### **Parameters**

module The Module record of the current module

items An input array of items to pack. Each element in the array has the following members:

product – A Product record for the item (if one exists)basketitem – The BasketItem of the item (if one exists)

- OR -

orderitem – The OrderItem of the item (if one exists)
width – The width of the item in store dimension units

**length** – The length of the item in store dimension units **height** – The height of the item in store dimension units

weight – The weight of the item in store dimension units

**item\_count** The number of elements in the **items** array

packages An output array that receives the resulting packaging solution. Each element in the

array should receive the following members:

width – The width of the package in store dimension units
 length – The length of the package in store dimension units
 height – The height of the package in store dimension units

items[] – An array containing the items from the input items array to be packed in

this package

item\_count - The number of items in the output items[] array

weight - The total weight of the package

**Note:** Multiple quantities of the same item are expanded and will be represented by multiple items in the **items** array.

#### Return Value

The number of entries the module put into the packages array

# Clean Up Store Feature (cleanup store)

This feature gives modules the ability to clean up residual data that gets left behind when store contents are deleted.

The cleanup\_store feature contains the following function:

• Module\_Cleanup\_Store

## Module\_Cleanup\_Store

The Module\_Cleanup\_Store function is called through the admin interface on the **Delete Baskets** page when a module contains the feature **cleanup\_store**. This function can do any clean up functionality your module requires from one unified location in the Miva Merchant admin. It is also available through provisioning.

#### Example

#### Supported API Version

All versions (new in PR8 Update 6)

#### **Syntax**

Module\_Cleanup\_Store( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# Client Side Feature (clientside)

This feature gives modules the ability to deliver static CSS or JavaScript content through **clientside.mvc**. Once a module implements this feature, URLs to **clientside** should take the following form:

http://www.somesite.com/mm5/clientside.mvc?

Module Code=<module that implements clientside>&Filename=xxx

The Filename parameter is then available to the module as g.Filename.

The clientside feature contains the following function:

• Module\_Clientside

#### Module\_Clientside

This function is called when a **clientside.mvc** URL contains the **Module\_Code** parameter. The filename requested is available in **g.Filename**. The module should call the function **Module\_Content\_Type** in **g.Module\_Clientside** to set the content type, then directly output the appropriate static content.

## Supported API Version

5.70 and higher

#### **Syntax**

Module\_Clientside( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

None. This function must not return a value.

# Component Feature (component)

**Component** modules underlie the items used in Store Morph Technology providing information to the UI on how to display data (or telling Miva Merchant how to alter the data before displaying it).

You install a component to a store by assigning it to an item within the store. This can be achieved on the **Edit Item** configuration page. Alternatively, you can assign a component to the store by

#### **Chapter 3: Module API**

#### Component Feature (component)

assigning it as an extension of a component already installed to the store. This can be done via the **Items** tab on the **Edit Page** configuration screen.

The **component** feature contains the following functions:

- ComponentModule\_Content
- ComponentModule\_Defaults
- ComponentModule\_Initialize
- ComponentModule\_Page\_Assign
- ComponentModule\_Page\_Unassign
- ComponentModule\_Prerender
- ComponentModule\_Render\_End
- ComponentModule Render Start
- ComponentModule\_Tabs
- ComponentModule\_Update
- ComponentModule Validate

#### ComponentModule\_Content

ComponentModule\_Content runs when the Admin displays the Edit Page configuration screen for a page using an Item based on the component. It tells the Admin what to display on the Edit Page screen when the user selects the tab belonging to this module. Examples of implementations of ComponentModule\_Content can be found in the modules/component directory.

#### Syntax

ComponentModule\_Content ( module var, item, tab, load\_fields, field\_prefix, fields var, settings var )

#### **Parameters**

module The Module record of the current module item The item record of the current item tab The code of the currently displayed tab

load\_fields A Boolean value indicating whether the current screen's data fields must be populated

from a data source

field\_prefix A component-specific structure name (as a string) in which all variables on a screen are

stored

fields A structure containing all variables that were submitted from the component's content

screen

settings A structure containing configuration options for the current component on the current

page

#### Return Value

1 on success0 on error

# ComponentModule Defaults

Admin calls this function when you assign a corresponding item to a page. Examples of implementations of **ComponentModule\_Defaults** can be found in the **modules/component** directory.

#### **Syntax**

#### ComponentModule\_Defaults( module var, settings var )

#### **Parameters**

module The Module record of the current module

settings A structure containing configuration options for the current component on the current

page

#### Return Value

Ignored

## ComponentModule\_Initialize

Miva Merchant calls this function when displaying a page using an item based on the component. Use this function to add, delete, or edit values in the **settings** and **all\_settings** structures that contain the data for display on the page (e.g., product name, list of shipping methods). Miva Merchant will call this function sequentially from any component extending the first component, for example, to add to the product name, or alter the order of the shipping methods in the list. Examples of implementations of **ComponentModule\_Initialize** can be found in the **modules/component** directory.

#### Syntax

#### ComponentModule\_Initialize( module var, item, all\_settings var, settings var )

#### **Parameters**

module The Module record of the current module item The item record for the current item

all\_settings A structure containing all configuration options for all assigned components for the

current page

**settings** A structure containing configuration options for the current component for the current

page

#### **Chapter 3: Module API**

#### Component Feature (component)

#### Return Value

1 on success

0 on error

## ComponentModule\_Page\_Assign

Admin calls this function when you assign a corresponding item to a page. Examples of implementations of **ComponentModule\_Page\_Assign** can be found in the **modules/component** directory.

#### **Syntax**

#### ComponentModule\_Page\_Assign( module var, page var, item, settings var )

#### **Parameters**

module The Module record of the current module

page The page record for the current page

item The item record for the current item

settings A structure containing configuration options for the current component for the current

page

#### Return Value

1 on success

**0** on error

# ComponentModule\_Page\_Unassign

Admin calls this function when you unassign an item from a page. Examples of implementations of ComponentModule\_Page\_Unassign can be found in the modules/component directory.

#### **Syntax**

#### ComponentModule\_Page\_Unassign( module var, page var, item, settings var )

#### **Parameters**

module The Module record of the current module

page The page record for the current page

item The item record for the current item

**settings** A structure containing configuration options for the current component for the current

page

#### Return Value

1 on success

0 on error

# ComponentModule\_Prerender

This function is called before **ComponentModule\_Render\_Start** to allow modules to separate their in-render loading activities from the actual output of content. This provides a mechanism similar to **ComponentModule\_Initialize**, but with the ability to see the **param** value which will be passed to **ComponentModule\_Render**.

ComponentModule\_Prerender is called when an item is explicitly pre-rendered through the Template Manager's TemplateManager\_Component\_Prerender function or immediately before calling ComponentModule\_Render\_Start.

# Supported API Version

5.72 and higher (new in PR8 Update 5)

#### **Syntax**

# ComponentModule\_Prerender( module var, item, all\_settings var, settings var, param )

#### **Parameters**

module The Module record of the current module item The item record for the current item

all\_settings A structure containing all configuration options for all assigned components for the

current page

settings A structure containing configuration options for the current component for the current

page

param The string value that is passed through the param attribute in the mvt:item tag

#### Return Value

Ignored

# ComponentModule\_Render\_End

Admin calls this function when the Template Manager encounters an item end tag (<mvt:item />) in the template. The function tells Miva Merchant what HTML source to place at that point on the page. Examples of implementations of ComponentModule\_Render\_End can be found in the modules/component directory.

## Component Feature (component)

#### Syntax

# ComponentModule\_Render\_End( module var, item, all\_settings var, settings var, param )

#### **Parameters**

module The Module record of the current module item The item record for the current item

**all\_settings** A structure containing all configuration options for all assigned components for the

current page

settings A structure containing configuration options for the current component for the current

page

**param** The string value that is passed through the **param** attribute in the **mvt:item** tag

#### Return Value

Ignored

# ComponentModule\_Render\_Start

Admin calls this function when the Template Manager encounters an item start tag (<mvt:item>) in the template. The function tells Miva Merchant what HTML source to place at that point on the page. Examples of implementations of ComponentModule\_Render\_Start can be found in the modules/component directory.

#### Syntax

# ComponentModule\_Render\_Start( module var, item, all\_settings var, settings var, param )

#### **Parameters**

module The Module record of the current module item The item record for the current item

all\_settings A structure containing all configuration options for all assigned components for the

current page

settings A structure containing configuration options for the current component for the current

page

param The string value that is passed through the param attribute in the mvt:item tag

#### Return Value

Ignored

# ComponentModule\_Tabs

Miva Merchant calls this function when Admin displays an **Edit Page** configuration screen for a page using an item based on the component. It returns a string of the tabs that the component will generate. The string takes the following form:

```
<code>:<title>, <code2>, <title2>
```

The module may specify as many <code>:<title> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

## Syntax

#### ComponentModule\_Tabs ( module var, item, settings var )

#### **Parameters**

module The Module record of the current module item

The item record for the current item

settings A structure containing configuration options for the current component for the current

page

#### Return Value

A string describing the tabs to be added (see description above)

## ComponentModule\_Update

Miva Merchant calls this function when **Update** is selected on the Edit Page configuration screen for a page using an item based on the component. Examples of implementations of **ComponentModule Update** can be found in the **modules/component** directory.

#### Syntax

# ComponentModule\_Update ( module var, item, field\_prefix, fields var, settings var )

#### **Parameters**

module The Module record of the current module item The item record for the current item

field\_prefix A component-specific structure name (as a string) in which all variables on a screen are

stored

fields A structure containing all variables that were submitted from the component's content

screen

settings A structure containing configuration options for the current component on the current

page

### Component Module Provisioning Feature (component\_prov)

#### Return Value

1 on success

0 on error

# ComponentModule Validate

Miva Merchant calls this function when **Validate** is selected on the **Edit Page** configuration screen for a page using an item based on the component. Examples of implementations of **ComponentModule\_Validate** can be found in the **modules/component** directory.

#### Syntax

ComponentModule\_Validate ( module var, item, field\_prefix, fields var )

#### **Parameters**

module The Module record of the current module item The item record for the current item

field\_prefix A component-specific structure name (as a string) in which all variables on a screen are

stored

fields A structure containing all variables that were submitted from the component's content

screen

#### Return Value

1 on success
0 on error

# Component Module Provisioning Feature (component prov)

Modules that implement the **Component Module Provisioning** feature (**component\_prov**) support provisioning of their settings through the provisioning system.

**Note:** Modules must include the **provision\_store** feature in order to make use of the **component\_prov** feature.

The **component\_prov** feature contains the following function:

• ComponentModule\_Provision

# ComponentModule\_Provision

Admin calls this function when it processes the **provide.xml** file if it encounters a tag identifying this module: **<Module code=[code for this module]>**. Admin then passes the information contained by the tag to the function. The function can then perform its task — for example, writing data to the appropriate database table. In addition, it receives the item settings. Examples of implementations of **ComponentModule\_Provision** can be found in the **modules/component** directory.

#### **Syntax**

#### ComponentModule\_Provision ( module var, provide\_xml var, settings var )

#### **Parameters**

module The Module record of the current module

**provide\_xml** A structure containing the contents of the XML provisioning file

settings A structure containing configuration options for the current component on the

current page

#### Return Value

1 on success
0 on error

# Currency Formatting Feature (currency)

Each function belonging to the **Currency Formatting** feature (**currency**) adds formatting to a decimal number that is passed to it. It provides a place to specify, among other things, the currency symbol and number of decimal places for use in displaying a price value.

In addition to simple formatting, a **currency** module can convert the values of various currencies. It can display US currency, Canadian currency or Eurodollars, or use the daily rate of exchange to provide updated values from day to day. It can even do a lookup every hour to update the currency values.

The currency feature contains the following functions:

- CurrencyModule\_AddFormatting
- CurrencyModule\_AddFormatPlainText
- CurrencyModule AddFormatPlainTextShort

# CurrencyModule\_AddFormatting

Miva Merchant calls this function wherever it displays a price on one of the store pages. Miva Merchant will call this function only from the **currency** module selected by the store administrator

#### Currency Formatting Feature (currency)

using the **Edit Store** configuration screen. Examples of implementations of **CurrencyModule\_AddFormatting** can be found in the **modules/currency** directory.

#### **Syntax**

#### CurrencyModule\_AddFormatting ( module var, value )

#### **Parameters**

module The Module record of the current module

value The currency amount represented as a number

#### Return Value

The formatted amount based on store currency settings (as a string)

# CurrencyModule AddFormatPlainText

This function provides alternate formatting to the **CurrencyModule\_AddFormatting** function. It is intended for use by email modules. Examples of implementations of **CurrencyModule\_AddFormatPlainText** can be found in the **modules/currency** directory.

#### Syntax

#### CurrencyModule\_AddFormatPlainText ( module var, value )

#### **Parameters**

module The Module record of the current module

value The currency amount represented as a number

#### Return Value

The formatted amount based on store currency settings (as a string)

# CurrencyModule\_AddFormatPlainTextShort

This function provides alternate formatting to the CurrencyModule\_AddFormatting function. It is intended for use by email modules. Examples of implementations of CurrencyModule\_AddFormatPlainTextShort can be found in the modules/currency directory.

# Syntax

#### CurrencyModule AddFormatPlainTextShort (module var, value)

#### **Parameters**

module The Module record of the current module

value The currency amount represented as a number

## Return Value

The formatted amount based on store currency settings (as a string)

# Shopping Interface Customer Actions Feature (custrt)

Modules that implement the **Shopping Interface Customer** feature (**custrt**) are called whenever a customer record is created or modified within the shopping interface.

The **custrt** feature includes the following functions:

- Module\_Customer\_Runtime\_ChangeEmailAddress
- Module\_Customer\_Runtime\_ChangePassword
- Module\_Customer\_Runtime\_Insert
- Module\_Customer\_Runtime\_Update
- Module\_Customer\_Runtime\_Validate

# Module\_Customer\_Runtime\_ChangeEmailAddress

This function is called by Miva Merchant when a customer successfully completes an email address change operation. This allows modules using the **custrt** feature to make their own internal changes when a customer changes their email address.

#### Supported API Version

5.73 and higher (new in PR8 Update 7)

#### Syntax

Module\_Customer\_Runtime\_ChangeEmailAddress ( module var, customer var )

#### **Parameters**

module The Module record of the current module

customer The customer record of the current customer

#### Return Value

1 on success
0 on error

Shopping Interface Customer Actions Feature (custrt)

# Module\_Customer\_Runtime\_ChangePassword

This function is called by Miva Merchant when a customer successfully completes a password change operation. This allows modules using the **custrt** feature to make their own internal changes when a customer changes their password.

## Supported API Version

5.73 and higher (new in PR8 Update 7)

#### Syntax

Module\_Customer\_Runtime\_ChangePassword ( module var, customer var )

#### **Parameters**

module The Module record of the current module

customer The customer record of the current customer

#### Return Value

1 on success
0 on error

# Module\_Customer\_Runtime\_Insert

Miva Merchant calls this function when a customer creates a new customer account at runtime.

#### **Syntax**

Module\_Customer\_Runtime\_Insert ( module var, customer var )

#### **Parameters**

module The Module record of the current module

customer The customer record of the current customer

#### Return Value

1 on success
0 on error

# Module\_Customer\_Runtime\_Update

Miva Merchant calls this function when a customer updates a customer account at runtime.

#### **Syntax**

#### Module\_Customer\_Runtime\_Update ( module var, customer var )

#### **Parameters**

module The Module record of the current module

customer The customer record of the current customer

#### Return Value

1 on success
0 on error

# Module\_Customer\_Runtime\_Validate

Miva Merchant calls this function when a customer record requires validation at runtime.

#### **Syntax**

Module\_Customer\_Runtime\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success
0 on error

# Domain-level Module Data Support Feature (data domain)

Modules that implement the **Domain-level Module Data Support** feature (data\_domain) are given an opportunity to create/initialize module specific data when installed within a Miva Merchant installation, modify that data when upgraded, and delete/clean up that data when removed.

The data\_domain feature includes the following functions:

- Module\_Install
- Module\_Uninstall
- Module\_Upgrade

## Domain-level Module Data Support Feature (data\_domain)

# Module\_Install

Miva Merchant calls this function when the administrator adds the module to the domain. One employs this function only when the module performs some functionality or provides data that is shared between all of the stores in a domain. The purpose of this function is to create any databases and directories that may be required.

#### Syntax

Module Install (module var)

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# Module\_Uninstall

Miva Merchant calls this function when the administrator removes the module from the domain. It should contain the code necessary to reverse what was done during **Module\_Install**. Any action that is taken in **Module\_Install** should be reversed in this function. It could be deleting a database or directory or deleting a user from the licensed-user database.

#### **Syntax**

Module\_Uninstall ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# Module\_Upgrade

Miva Merchant calls this function when the administrator clicks **Update** on the **Edit Module** configuration screen. It provides a place to define what action admin must take to upgrade from one version of the module to another.

If the module has more than two versions that could be actively used, there might be new fields in the later version of the module. In this case, the databases would have to be upgraded carefully. For example, if there are four versions in use (v1.0, v1.1, v2.0, v3.0) and you are upgrading from v1.0 to v3.0, the code should first upgrade to v1.1, then to v2.0 and finally to v3.0.

#### **Syntax**

#### Module\_Upgrade ( module var, version )

#### **Parameters**

module The Module record of the current module version

The currently stored version of the module

#### Return Value

1 on success
0 on error

# Store-level Module Data Support Feature (data store)

Modules that implement the **Store-level Module Data Support** feature (data\_store) are given an opportunity to create/initialize module specific data when assigned to a store, modify that data when upgraded, and delete/clean up that data when unassigned.

The **Store-level Module Data Support** feature includes the following functions:

- Module\_Install\_Store
- Module\_Uninstall\_Store
- Module\_Upgrade\_Store

## Module\_Install\_Store

Miva Merchant calls this function when the store administrator assigns the module to the store. The purpose of this function is to create any databases and directories that may be required by the module for each store location.

#### **Syntax**

Module\_Install\_Store ( module var )

Store-level Module Data Support Feature (data\_store)

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# **Module Uninstall Store**

Miva Merchant calls this function when the store administrator removes a module from the store. It should contain the code necessary to reverse what was done during Module\_Install\_Store. Every action that is taken in Module\_Install\_Store should be reversed in this function. All databases and directories that have been established should be deleted and the store should be taken out of the "installed stores" database. Any other functions that were required to establish the store must be reversed and cleaned up.

# **Syntax**

Module\_Uninstall\_Store ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# Module\_Upgrade\_Store

Miva Merchant calls this function when a store administrator clicks **Update** on the **Edit Module** configuration screen. It provides a place for code altering the databases and directories that apply to a specific store during an module upgrade.

#### Syntax

Module\_Upgrade\_Store ( module var, version )

#### **Parameters**

module The Module record of the current module version

The version of the module before update

#### Return Value

1 on success

0 on error

# Designer Feature (designer)

Modules that implement the **Designer** feature (**designer**) provide methods to facilitate their use with Dreamweaver.

The designer feature includes the following functions:

- DesignerComponentModule\_Export
- DesignerComponentModule\_ImportProvisionLines

# DesignerComponentModule\_Export

This function is called by TemplateManager\_Export\_Template for modules containing feature designer. Its purpose is to export the template data from a given module, as HTML text or as a file, to be edited in an external editor and/or imported later. If using output\_type "html", you can place data into I.start\_data and I.end\_data. This data will then be passed back to

TemplateManager\_Export\_Template and written along with the other data. If using output\_type "file", you must provide a file name in I.start data (I.end data will be ignored in this case).

In order for the linking to work correctly with **output\_type** "file", **DesignerComponentModule\_Export** must recursively call function **TemplateManager\_Export\_Template** with the current template source data and the file name you are returning in **l.start\_data**.

#### Example

#### Designer Feature (designer)

```
VALUE = "file">
    <MvASSIGN NAME = "l.output type"
    <MvASSIGN NAME = "l.start data"
                                         VALUE = "my-file.htm">
    <MvASSIGN NAME = "l.templ id"
                                         VALUE = 123>
    <MvIF EXPR = "{ NOT [ g.Module_Feature_TUI_DB ]</pre>
     .ManagedTemplateVersion_Load_Template_Current( 1.templ_id, 1.template ) }">
        <MvFUNCTIONRETURN VALUE = 0>
    </MVIF>
    <MvIF EXPR = "{ NOT [ g.Module Feature TUI MGR ]</pre>
     .TemplateManager_Export_Template( 1.page, 1.output_location, 1.output_path,
     1.extfile_path, 1.all_settings, 1.template:source, 1.start_data ) }">
        <MvFUNCTIONRETURN VALUE = 0>
    </MVIF>
    <MvFUNCTIONRETURN VALUE = 1>
</MvFUNCTION>
```

#### **Syntax**

DesignerComponentModule\_Export ( module var, page var, output\_root\_option, output\_dir, extfile\_dir, item, all\_settings var, settings var, param, output\_type var, start\_data var, end\_data var)

#### **Parameters**

module The Module record of the current module

**page** The page to be exported

output\_root\_option H for scripts (webroot) directory

D for data directory

**output\_dir** The destination path for the resulting template files

(e.g., /editable\_templates/store1/mm5). Expects a leading slash (/).

**extfile\_dir** The root destination path for referenced external files

(e.g., /editable\_templates/store1). Expects a leading slash (/).

item The item code

**all\_settings** Page attributes, such as items

settings Local settings within function assigned to 'l.all\_settings:' \$ l.item

(for example, if **l.item** = 'my item' then it would be **l.all\_settings:my\_item**)

param Item parameters

**output\_type** Type of output (HTML or file, all other types are ignored)

start\_data If output\_type is "file", start\_data must be the filename. If output\_type is

"html", then **start\_data** must contain the start-data HTML to return.

end\_data If output\_type is "file", end\_data is ignored. If output\_type is "html", this

variable should be populated with the end-data HTML to return (if any).

#### Return Value

1 on success

0 on error

# DesignerComponentModule\_ImportProvisionLines

This function is called indirectly by **TUI\_Import\_Page** to generate provision code that can then be used by the provision features library to import the data within the files you saved in the editable directory. Place the edited template/page files you wish to import into a location that you set up in the store Admin under the Template Import/Export Settings tab. From the **Pages** screen in Admin, check the "Import" checkbox next to the page to be updated and click **Update**. This function will link the import file location to the actual import code, which then (during the provision step) looks at that file location, reads the contents of the file, and imports it into the current page item's template.

#### **Syntax**

DesignerComponentModule\_ImportProvisionLines ( module var, page\_code, name, param, settings )

#### **Parameters**

module The Module record of the current module page\_code The code of the page to be imported

name The item code
param Item parameters

settings Item settings (for example, if it is a template item it contains the template name, notes,

etc.)

#### Return Value

The XML provision code (String)

# Discount Feature (discount)

The discount subsystem provides a mechanism for applying discounts based on the criteria specified. Discounts can be applied to individual items, entire baskets, shipping costs, or custom qualifying criteria.

The discount feature includes the following functions:

- DiscountModule\_Capabilities
- DiscountModule\_Discount\_Basket
- DiscountModule\_Field

#### Discount Feature (discount)

- DiscountModule\_Fields
- DiscountModule\_Invalid
- DiscountModule\_PriceGroup\_Delete
- DiscountModule\_Prompt
- DiscountModule\_Provision\_Settings
- DiscountModule\_Update
- DiscountModule\_Validate

# DiscountModule\_Capabilities

This function describes the functionality that the discount module provides to the discount subsystem.

#### Supported API Version

Introduced in Miva Merchant 9

#### **Syntax**

#### DiscountModule\_Capabilities( module var, capabilities var )

#### **Parameters**

module

The **Module** record of the current module

capabilities

An output structure containing information about the functionality of the discount module API that the module implements. The output structure is populated with the following members:

:items – (Boolean) If true, the module supports discounts to individual items and must implement the **DiscountModule\_Discount\_Items** function

:basket – (Boolean) If true, the module supports discounts to the overall basket and must implement the <code>DiscountModule\_Discount\_Basket</code> function

:tax – (Boolean) If true, the module supports sales tax

 $\hbox{:} \textbf{shipping}-(Boolean)\ If\ true,\ the\ module\ supports\ discounts\ to\ shipping\ methods\ and\ must\ implement\ both\ the\ \textbf{DiscountModule\_Discount\_Shipping}\ and\ the$ 

DiscountModule\_Discount\_ShippingMethodList functions

:provision\_settings – (Boolean) If true, the module supports provisioning.

#### Return Value

Ignored

# DiscountModule\_Discount\_Basket

This function is called after all the items are discounted for modules that have the "basket" capability. For example, the **basket.mv** module uses this function to apply basket-wide discounts instead of line item discounts.

# Supported API Version

Introduced in Miva Merchant 9

#### **Syntax**

DiscountModule\_Discount\_Basket( module var, pricegroup var, discount\_state var )

#### **Parameters**

module The Module record of the current module

pricegroup The PriceGroup record being edited or NULL if a price group is being added

**discount\_state** Internal discounting state used when calling module helper functions

#### Return Value

1 on success0 on error

# DiscountModule\_Field

This function draws the HTML input element(s) required for configuration of a single field from the list returned by **DiscountModule\_Fields**. The module outputs the required HTML directly.

#### Supported API Version

Introduced in Miva Merchant 9

#### **Syntax**

#### DiscountModule\_Field( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The ID of the field to output. This ID comes from the comma separated list returned by

DiscountModule\_Fields.

#### Return Value

Ignored

# DiscountModule\_Fields

This function returns a comma separated list of field identifiers for module-specific fields that should be present for a given price group.

Discount Feature (discount)

#### Supported API Version

Introduced in Miva Merchant 9

## **Syntax**

### DiscountModule\_Fields( module var, pricegroup var )

#### **Parameters**

module The Module record of the current module

pricegroup The PriceGroup record being edited or NULL if a price group is being added

#### Return Value

A comma separated list of field identifiers

# DiscountModule\_Invalid

When **DiscountModule\_Invalid** returns **0**, this function is called for each field to determine which field(s) should be displayed in the invalid state.

#### Supported API Version

Introduced in Miva Merchant 9

#### Syntax

# DiscountModule\_Invalid( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The ID of the field to output. This ID comes from the comma separated list returned by

DiscountModule\_Fields.

#### Return Value

1 if the specified field is invalid

0 if the specified field is valid

# DiscountModule\_PriceGroup\_Delete

This function notifies the module that a price group is being deleted. When a price group is deleted, the database layer calls this function in order to give the module an opportunity to delete any records associated with the price group.

# Supported API Version

9.01 and higher (introduced in Miva Merchant 9)

#### **Syntax**

#### DiscountModule\_PriceGroup\_Delete( module var, pricegroup var )

#### **Parameters**

module The Module record of the current module pricegroup

The PriceGroup record being deleted

#### Return Value

1 on success0 on error

# DiscountModule\_Prompt

This function is called for each field return by **DiscountModule\_Fields** to obtain the prompt (descriptive text displayed to the left of the field).

#### Supported API Version

Introduced in Miva Merchant 9

#### Syntax

# DiscountModule\_Prompt( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The ID of the field to output. This ID comes from the comma separated list returned by

DiscountModule\_Fields.

#### Return Value

Textual prompt (HTML permitted)

# DiscountModule\_Provision\_Settings

This function is called when a price group is created using the **PriceGroup\_Add** provisioning tag and the **<Settings>** tag is present. The module is expected to implement provisioning for whatever settings are normally maintained on a price-group by price-group basis.

Discount Feature (discount)

#### Supported API Version

Introduced in Miva Merchant 9

## **Syntax**

#### DiscountModule\_Provision\_Settings( module var, pricegroup var, provide\_xml var )

#### **Parameters**

module The Module record of the current module

pricegroup The PriceGroup record being edited or NULL if a price group is being added

provide\_xml Provisioning-parsed XML from the <Settings> tag of a PriceGroup\_Add/Update tag

#### Return Value

1 on success0 on error

# DiscountModule\_Update

This function is called when a price group is modified so that the module can store any changes to the module controlled price group fields.

### Supported API Version

Introduced in Miva Merchant 9

#### Syntax

#### DiscountModule\_Update( module var, pricegroup var )

#### **Parameters**

module The Module record of the current module

pricegroup The PriceGroup record being edited or NULL if a price group is being added

#### Return Value

1 on success

0 on error

# DiscountModule\_Validate

This function is called to validate module-provided price group fields when creating or updating a price group record from the administrative interface.

#### Supported API Version

Introduced in Miva Merchant 9

### **Syntax**

#### DiscountModule\_Validate( module var, pricegroup var )

#### **Parameters**

module The Module record of the current module

pricegroup The PriceGroup record being edited or NULL if a price group is being added

#### Return Value

1 on success
0 on error

# Data Export Feature (export)

Modules that implement the **Data Export** feature (**export**) provide user interface and operational elements for exporting data.

The **export** feature includes the following functions:

- ExportModule\_Export
- ExportModule\_Screen
- ExportModule\_Validate

# ExportModule\_Export

Miva Merchant calls this function when a user submits information from the Export UI screen in the administration tool. This function provides a place for code to validate any input data that is required to run the module. For example, if the module requires a database name and the fields to be exported, this function must validate that the names of the database and fields exist and can be read.

#### Syntax

## ExportModule\_Export ( module var )

#### **Parameters**

module The Module record of the current module

# Chapter 3: Module API Data Export Feature (export)

#### Return Value

1 on success

0 on error

# ExportModule\_Screen

Miva Merchant calls this function when a user submits information from the Export UI screen in the administration tool. This function provides the Admin with instructions about exporting data in a Miva Merchant database or file to a database or file outside of the Miva Merchant environment. For example, this type of module could read the customer database and write it to a file on another computer. Any data that is available to Miva Merchant can be exported.

### Syntax

ExportModule\_Screen ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# ExportModule\_Validate

Miva Merchant calls this function when a user submits information from the Export UI screen in the administration tool. This function provides a place for code to validate any input data that is required to run the module. For example, if the module requires a database name and the fields to be exported, this function must validate that the names of the database and fields exist and can be read.

#### Syntax

### ExportModule\_Validate ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# External Requirement Verification Feature (externalreg)

Modules can implement the **External Requirement Verification** feature (**externalreq**) to verify that external requirements (required commerce libraries, SSL support, etc.) are met before the module is assigned to a store.

The externalreq feature includes the following function:

• Module\_External\_Requirements\_Met

# Module\_External\_Requirements\_Met

The administrative UI calls this function when displaying one of the feature configuration screens, such as:

- System Extension Configuration
- Shipping Configuration
- Payment Configuration
- Order Fulfillment Configuration
- Logging Configuration
- System Extension Configuration
- Utilities Configuration

If the function does not return TRUE, the Admin will not include the module in the list of those assignable to the store. The module can be coded to test for the state of some arbitrary requirement — for example, that the server runs SSL — then return FALSE if the server fails the test. This would prevent store administrators from installing the module to the store until and unless the SSL requirement is met.

#### **Syntax**

# Module\_External\_Requirements\_Met ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

Category Custom Fields Feature (fields\_cat)

# Category Custom Fields Feature (fields\_cat)

Modules that implement the **Category Custom Fields** feature (**fields\_cat**) provide one or more Category custom fields for display in the shopping and administrative interfaces.

The fields\_cat feature contains the following functions:

- Module\_Category\_Field\_Name
- Module\_Category\_Field\_Value
- Module\_Category\_Fields
- Module\_Category\_Set\_Field

# Module\_Category\_Field\_Name

This function returns the name of a Custom Category Field given its code.

## Syntax

Module\_Category\_Field\_Name ( module var, code )

#### **Parameters**

module The Module record of the current module

code The Custom Category Field code set in Module\_Category\_Fields

#### Return Value

A string of the field name

# Module\_Category\_Field\_Value

This function returns the string data of a Custom Category Field given its code and the category item's ID.

#### Syntax

Module\_Category\_Field\_Value ( module var, cat\_id, code )

#### **Parameters**

module The Module record of the current module cat\_id The ID of the category item being passed in

code The Custom Category Field code set in Module\_Category\_Fields

#### Return Value

A string describing the custom field data

# Module\_Category\_Fields

This function returns the Custom Category Fields array with the member's code and name to be used by the other functions in the Custom Category Fields API.

#### **Syntax**

#### Module\_Category\_Fields ( module var, fields var )

#### **Parameters**

module The Module record of the current module

fields The fields array containing the name and code of each custom field item

#### Return Value

The count of added elements

# Module\_Category\_Set\_Field

This function sets the new or updated value of the passed category's custom field.

#### **Syntax**

Module\_Category\_Set\_Field ( module var, cat\_id, code, value )

## **Parameters**

module The Module record of the current module cat\_id The ID of the category item passed in

code The Custom Category Field code set in Module\_Category\_Fields

value The new value to be set for the category's custom field based on the passed code

#### Return Value

1 on success0 on error

# Multiple Category Custom Fields Feature (fields cat map)

The fields\_cat\_map feature adds additional functionality to the fields\_cat feature to allow multiple custom fields to be retrieved in a single call to the module. This improves performance when there are large numbers of custom fields in use.

Customer Custom Fields Feature (fields\_cust)

**Note:** The module must provide the **fields\_cat\_map** feature **and** report an API version of 5.72.

The fields cat map feature contains the following function:

Module\_Category\_Fields\_Mapped

# Module\_Category\_Fields\_Mapped

This function allows multiple custom fields to be retrieved in a single call to the module. This improves performance when there are large numbers of custom fields in use. The module should load the custom fields for the specified category and place the values into output\_fields using the member names specified by field\_map.

# Supported API Version

Introduced in PR8 Update 5

## Syntax

Module\_Category\_Fields\_Mapped ( module var, cat\_id, field\_map var, output\_fields var )

#### **Parameters**

module The Module record of the current module

cat\_id The ID of the category for which custom fields are being queried

field map A structure that defines a mapping between custom field codes and the member used

> for output in **output\_fields**. For example, if the module provides two custom fields "a" and "b", and the caller wants the values for those fields to be put into the "a value"

and "b value" members of output\_fields, field\_map would look like this:

field\_map:a="a\_value" field\_map:b="b\_value"

output\_fields Output structure that receives the custom fields

#### Return Value

Ignored

# Customer Custom Fields Feature (fields cust)

Modules that implement the Customer Custom Fields feature (fields\_cust) provide one or more Customer custom fields for display in the shopping and administrative interfaces. This feature is activated under **Utilities** in the Administrative Interface. The fields cust feature is analogous to the fields\_prod feature.

The fields\_cust feature contains the following functions:

- Module\_Customer\_Field\_Name
- Module\_Customer\_Field\_Value
- Module\_Customer\_Fields
- Module\_Customer\_Set\_Field

# Module\_Customer\_Field\_Name

This function returns the name of a Custom Customer Field given its code.

#### **Syntax**

```
Module_Customer_Field_Name ( module var, code )
```

#### **Parameters**

module The Module record of the current module

code The Custom Customer Field code set in Module\_Customer\_Fields

#### Return Value

A string showing the field name

# Module\_Customer\_Field\_Value

This function returns the string data of a Custom Customer Field given its code and the customer item's ID.

#### Syntax

Module\_Customer\_Field\_Value ( module var, cust\_id, code )

#### **Parameters**

module The Module record of the current module cust\_id The ID of the customer item being passed in

code The Custom Customer Field code set in Module\_Customer\_Fields

#### Return Value

A string describing the custom field data

Customer Custom Fields Feature (fields\_cust)

# Module\_Customer\_Fields

Miva Merchant calls this function when displaying the **Customer Configuration** screen in the Administrative Interface. Its purpose is to load the **Lfields** structure with the name and code for each custom field that the module supplies. The Customer Export module also calls this function.

#### **Syntax**

Module\_Customer\_Fields ( module var, fields var )

#### **Parameters**

module The Module record of the current module

**fields** An array with each element in the array having the following members:

name - The field name visible in the Admin (as on Point & Click

Administration of template)

code - The code Miva Merchant uses to identify the field

#### Return Value

The number of elements added to I.fields

# Module Customer Set Field

Miva Merchant calls this function from the Administrative Interface to update the value of a custom Customer field via the **value** parameter.

#### Syntax

Module\_Customer\_Set\_Field ( module var, cust\_id, code, value )

#### **Parameters**

module The Module record of the current module cust\_id The ID of the customer item passed in

code The Customer Field code set in Module\_Customer\_Fields

value The new value to be set for the customer's custom field based on the passed code

#### Return Value

1 on success

0 on error

# Product Custom Fields Feature (fields\_prod)

Modules that implement the **Product Custom Fields** feature (**fields\_prod**) provide one or more Product custom fields for display in the shopping and administrative interfaces. This feature is activated under **Utilities** in the Administrative Interface. The **fields\_prod** feature is analogous to the **fields\_cust** feature.

The fields\_prod feature contains the following functions:

- Module\_Product\_Field\_Name
- Module\_Product\_Field\_Value
- Module\_Product\_Fields
- Module\_Product\_Set\_Field

# Module\_Product\_Field\_Name

The UI calls this function when displaying a Custom Product Field on the **Product** screen (PROD) or **Product List** screen (PLIST). It returns a string for display as a field name for the field corresponding to **l.code**.

## **Syntax**

Module\_Product\_Field\_Name ( module var, code )

#### **Parameters**

module The Module record of the current module

code The Custom Product Field code set in Module\_Product\_Fields

#### Return Value

A string showing the field name

# Module\_Product\_Field\_Value

The Admin calls this function to display the value of a custom field on the **Product Configuration** screen. The UI calls this function when displaying a custom product field on the **Product** page. It returns a string for display as a field value for the field corresponding to **l.code**.

# **Syntax**

Module\_Category\_Field\_Value ( module var, prod\_id, code )

#### **Parameters**

module The Module record of the current module

# Product Custom Fields Feature (fields\_prod)

**prod\_id** The ID of the product item being passed in

code The Custom Product Field code set in Module\_Product\_Fields

#### Return Value

A string showing the custom field data

# Module\_Product\_Fields

Miva Merchant calls this function when displaying the **Product** configuration screen and the **Edit Page: Product Display** configuration screen in the Administrative Interface. The Product Import and Export modules also calls this function. Its purpose is to load the **I.fields** structure with the name and code for each custom field that the module supplies. When viewing the point and click administration of the Product Display Layout, the field(s) created by the module will be available to select for display.

#### Syntax

#### Module Product Fields (module var, fields var)

#### **Parameters**

module The Module record of the current module

**fields** An array with each element in the array having the following members:

name - The field name visible in the Admin (as on Point & Click

Administration of template)

code - The code Miva Merchant uses to identify the field

#### Return Value

The number of elements added to I.fields

# Module Product Set Field

Admin relies on this function to instruct it how to update the value (from the **value** parameter) of a custom product field (identified by the **code** parameter) for a given product (identified by the **prod\_id** parameter). The **value** comes from manual input from an administrator, an import etc.

#### Syntax

#### Module\_Product\_Set\_Field ( module var, prod\_id, code, value )

#### **Parameters**

module The Module record of the current module prod\_id The ID of the product item passed in

**code** The custom product field code set in function Module\_Product\_Fields

**value** The new value to be set for the product's custom field based on the passed code

#### Return Value

1 on success
0 on error

# Multiple Product Custom Fields Feature (fields prod map)

The fields\_prod\_map feature adds additional functionality to the fields\_prod feature to allow multiple custom fields to be retrieved in a single call to the module. This improves performance when there are large numbers of custom fields in use.

**Note:** The module must provide the **fields\_prod\_map** feature *and* report an API version of 5.72.

The fields\_prod\_map feature contains the following function:

Module\_Product\_Fields\_Mapped

# Module\_Product\_Fields\_Mapped

This function allows multiple custom fields to be retrieved in a single call to the module. This improves performance when there are large numbers of custom fields in use. The module should load the custom fields for the specified product and place the values into **output\_fields** using the member names specified by **field\_map**.

### Supported API Version

5.72 and higher (new in PR8 Update 5)

#### Syntax

Module\_Product\_Fields\_Mapped ( module var, product\_id, field\_map var, output\_fields var )

#### **Parameters**

**module** The **Module** record of the current module

**product\_id** The ID of the product for which custom fields are being queried

#### Order Fulfillment Feature (fulfill)

field\_map

A structure that defines a mapping between custom field codes and the member used for output in **output\_fields**. For example, if the module provides two custom fields "a" and "b", and the caller wants the values for those fields to be put into the "a\_value" and "b\_value" members of **output\_fields**, **field\_map** would look like this:

field\_map:a="a\_value"
field\_map:b="b\_value"

output\_fields

Output structure that receives the custom fields

#### Return Value

Ignored

# Order Fulfillment Feature (fulfill)

Modules that implement the **Order Fulfillment** feature (**fulfill**) are called to perform fulfillment operations when an order is placed in the shopping interface or when an administrator manually triggers a fulfillment module from the Administrative Interface.

The fulfill feature contains the following function:

• FulfillmentModule\_ProcessOrder

# FulfillmentModule\_ProcessOrder

Miva Merchant calls this function after a successful run of **PaymentModule\_Authorize**. At a basic level, it can be used to send the customer an order acknowledgement email, or it can send the customer an invoice and the shipping department a packing list. For more advanced order processing, **FulfillmentModule\_ProcessOrder** can, for example, send a parts list that defines the components necessary for a custom built computer to the manufacturing floor.

#### Syntax

#### FulfillmentModule\_ProcessOrder ( module var, order var )

#### **Parameters**

module The Module record of the current module order The order record of the current order

#### Return Value

1 on success0 on error

# Data Import Feature (import)

Modules that implement the **Data Import** feature (**import**) provide user interface and operational elements for importing data. Functions within this feature obtain data from outside the Miva Merchant environment and write it to files within Miva Merchant.

The **import** feature contains the following functions:

- ImportModule\_Capabilities
- ImportModule\_Delimited\_Columns
- ImportModule\_Delimited\_Import\_Begin
- ImportModule\_Delimited\_Import\_End
- ImportModule\_Delimited\_Import\_Record
- ImportModule Import
- ImportModule\_Persistent\_Field
- ImportModule\_Persistent\_Fields
- ImportModule\_Persistent\_Invalid
- ImportModule\_Persistent\_Prompt
- ImportModule\_Persistent\_Provision
- ImportModule\_Persistent\_StatusFields
- ImportModule\_Persistent\_Update
- ImportModule\_Persistent\_Validate
- ImportModule\_Raw\_Import\_Begin
- ImportModule\_Raw\_Import\_Deserialize
- ImportModule\_Raw\_Import\_End
- ImportModule\_Raw\_Import\_Record
- ImportModule\_Raw\_Import\_Serialize
- ImportModule\_Screen
- ImportModule\_Validate

# ImportModule\_Capabilities

This function allows the module to tell the import subsystem what functionality it implements. Modules with an API version lower than 5.70 are assumed to have the following capabilities:

# Supported API Version

5.70 and higher

Data Import Feature (import)

#### **Syntax**

#### ImportModule\_Capabilities( module var, capabilities var )

#### **Parameters**

module The Module record of the current module

capabilities An output structure containing information about the functionality the module provides.

**screen** – Boolean. If true, the module implements the **ImportModule\_Validate**, **ImportModule\_Import**, and **ImportModule\_Screen** functions from earlier API versions and displays in the left navigation menu under **Utilities/Import Data**.

persistent - Boolean. If true, the module implements the
ImportModule\_Persistent\_XXX functions and may be used to preconfigure one or
more imports displayed on the Import Data screen.

format – Text, valid only for modules that also support the :persistent capability. Must be either "delimited" or "raw". A value of "delimited" indicates that the module imports data from delimited text formats (CSV, tab delimited, etc.) and wants to make use of the import subsystem's built-in delimited text parser, in which case the module must implement the ImportModule\_Delimited\_XXX functions. A value of "raw" indicates that the module provides its own parser. In this case, the import subsystem will still handle the upload of the import file but will hand the raw data off to the module through the ImportModule\_Raw\_XXX functions.

**persistent\_provision** – Boolean. If true, the module supports configuration of persistent imports through the provisioning system and must implement the function **ImportModule\_Persistent\_Provision**.

#### Return Value

None. The module must not return any value from this function.

# ImportModule\_Delimited\_Columns

For modules that import the :persistent capability with a :format of "delimited", this function defines the list of input columns that the module expects. The import subsystem will use this list of columns to provide the configuration user interface and also to perform column-header based automatic mapping of fields.

#### Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Delimited\_Columns( module var, import var, columns var )

#### **Parameters**

module The Module record of the current module

**import** The **import** record of the persistent import being configured, executed, or manipulated

#### columns

An output array of columns supported by the module. Each entry in the array has the following members:

**field** – A variable name that will be used to pass data to the module when performing an input. Must meet the Miva Script structure member naming requirements.

**name** – The name of the column. This value will be displayed to the user during import configuration.

**header** – The header row value for this column. When automatic column mapping is enabled, this value will be used to match columns in the input file with columns supported by the module.

#### Return Value

The number of entries placed into the **columns** array

# ImportModule\_Delimited\_Import\_Begin

This function is called when the import of a delimited file is begun. It allows the module to perform any import initialization, validation of auto-mapped columns or other pre-import operations that may be required.

#### Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Delimited\_Import\_Begin( module var, import var, session var, run\_data var)

#### **Parameters**

 module
 The Module record of the current module

 import
 The Import record being executed

 session
 An opaque structure that is passed to import subsystem helper functions to identify the import operation. The module should not manipulate this value.

 run\_data
 A structure containing information about this import execution. Members placed into this structure will be retained throughout the import process and passed to other ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success0 on error

# ImportModule Delimited Import End

This function is called at the end of a delimited import to allow the module to perform any cleanup tasks that may be required.

Data Import Feature (import)

#### Supported API Version

5.70 and higher

#### **Syntax**

# ImportModule\_Delimited\_Import\_End( module var, import var, session var, run\_data var )

#### **Parameters**

module The Module record of the current module

import The Import record being executed

**session** An opaque structure that is passed to import subsystem helper functions to identify

the import operation. The module should not manipulate this value.

run\_data A structure containing information about this import execution. Members placed into

this structure will be retained throughout the import process and passed to other

ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success

0 on error

# ImportModule\_Delimited\_Import\_Record

During a delimited import, this function is called once for each record.

## Supported API Version

5.70 and higher

# Syntax

ImportModule\_Delimited\_Import\_Record( module var, import var, session var, record var, run\_data var )

#### **Parameters**

**module** The **Module** record of the current module

import The Import record being executed

**session** An opaque structure that is passed to import subsystem helper functions to identify

the import operation. The module should not manipulate this value.

**record** A structure containing members populated using the data from the delimited file.

Each field that is configured and present in the input file will have a single member,

with the member name being equal to the :field member returned from

ImportModule\_Delimited\_Columns.

**run\_data** A structure containing information about this import execution. Members placed

into this structure will be retained throughout the import process and passed to other

ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success

0 on error

# ImportModule Import

Miva Merchant calls this function when a user submits information from the Import UI screen in the administration tool. This function provides the Admin with instructions about importing the data to a Miva Merchant database from a database or file outside of the Miva Merchant environment. For example, this type of module could read a product database outside of Miva Merchant and write it to the Miva Merchant products database. Any data in the Miva Merchant database can be imported.

#### **Syntax**

ImportModule\_Import ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 on success

0 on error

# ImportModule Persistent Field

This function draws a single configuration field.

#### Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Persistent\_Field( module var, field\_id )

Data Import Feature (import)

#### **Parameters**

module The Module record of the current module

**field\_id** The field identifier. The value is one of the fields returned by

ImportModule\_Persistent\_Fields.

#### Return Value

Ignored

# ImportModule\_Persistent\_Fields

This function returns a comma separated list of field identifiers that are used to draw the configuration dialog for this import. Each identifier receives a single row in the configuration dialog, with each row consisting of a "prompt" (descriptive text to the left of the field) and a "field" (input controls, etc.)

### Supported API Version

5.70 and higher

#### **Syntax**

ImportModule\_Persistent\_Fields( module var, import var )

#### **Parameters**

module The Module record of the current module import The Import record being configured

#### Return Value

A comma separated list of field identifiers

## ImportModule\_Persistent\_Invalid

When ImportModule\_Persistent\_Validate fails, this function is called for each field to determine whether the field should be displayed in an invalid state. Presently this means that the field's prompt is displayed in red text.

## Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Persistent\_Invalid( module var, field\_id )

#### **Parameters**

module The Module record of the current module field\_id The identifier of the field being queried

#### Return Value

1 if the field should be displayed as invalid0 if the field should be displayed as valid

# ImportModule\_Persistent\_Prompt

This function returns the prompt (descriptive text displayed to the left of the field) for a single field from the list of fields returned by ImportModule\_Persistent\_Fields.

#### Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Persistent\_Prompt( module var, field\_id )

#### **Parameters**

module The Module record of the current module

**field\_id** The field identifier for which to return the prompt

#### Return Value

The textual prompt, as it should be displayed to the user. HTML is permitted.

# ImportModule\_Persistent\_Provision

This function performs configuration provisioning of a persistent import.

**Note:** The current version of the software only supports creation of persistent imports through provisioning and does not allow updates of existing imports.

#### Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Persistent\_Provision( module var, import var, settings\_xml var )

## Data Import Feature (import)

#### **Parameters**

module The Module record of the current module

**Import** The **Import** record being provisioned. The module may store configuration values in

the member :config.

settings\_xml Provisioning XML (parsed by xml\_parse) in the same format as used by the rest of

the provisioning code

#### Return Value

1 on success0 on error

**Important:** If **0** is returned, the import subsystem will abort creation of the provisioned import.

**Note:** The module should report provisioning warnings or errors using **PRV\_LogMessage** or **PRV\_LogError**.

# ImportModule\_Persistent\_StatusFields

While processing an import file, the import subsystem allows modules to define module-specific status fields that are displayed to the user. This function describes the status fields provided by the module.

**Note:** During the import process, modules may control the values of the status fields by using the Import\_Session\_StatusField\_XXX functions provided in features/imp/imp\_ut.mv.

## Supported API Version

5.70 and higher

#### **Syntax**

# ImportModule\_Persistent\_StatusFields( module var, import var, status\_fields var )

#### **Parameters**

module The Module record of the current module

import The Import record being imported

**status\_fields** An output array describing the status fields that should be displayed to the user. Each

element in the array has the following members:

code - A unique code that is used to identify the status field

**prompt** – Descriptive text that is displayed to the left of the status field value in the import run dialog

initial – The initial value of the field

#### Return Value

The number of entries the module placed into the status\_fields array

# ImportModule\_Persistent\_Update

This function is called to update the module-specific configuration settings of a persistent import.

## Supported API Version

5.70 and higher

#### **Syntax**

ImportModule\_Persistent\_Update( module var, import var )

#### **Parameters**

module The Module record of the current module

import The Import record being updated. Modules should place their configuration values in the

:config member of this structure.

#### Return Value

1 on success0 on error

# ImportModule\_Persistent\_Validate

This function is called to validate the configuration fields defined by ImportModule\_Fields.

## Supported API Version

5.70 and higher

# **Syntax**

ImportModule\_Persistent\_Validate( module var, import var )

#### **Parameters**

module The Module record of the current module import The Import record being configured

# Chapter 3: Module API Data Import Feature (import)

#### Return Value

1 if all fields are valid

0 if any field is invalid

**Note:** Modules may report validation errors through **ImportModule\_Persistent\_Invalid** or by calling the **FieldError** function.

# ImportModule\_Raw\_Import\_Begin

This function is called at the beginning of a persistent import using the "raw" format. It allows the module to perform any start-of-import initialization that is required.

## Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Raw\_Import\_Begin( module var, import var, session var, filename, run\_data var )

#### **Parameters**

module The Module record of the current module import The Import record being executed

**session** An opaque structure that is passed to import subsystem helper functions to

identify the import operation. The module should not manipulate this value.

**filename** The name of the import file. The uploaded import file is stored using a unique

temporary filename in the mivadata directory.

**run\_data** A structure containing information about this import execution. Members

placed into this structure will be retained throughout the import process and

passed to other ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success0 on error

# ImportModule\_Raw\_Import\_Deserialize

In order to prevent timeouts, the import subsystem will occasionally suspend and resume the import process. For delimited imports, this behavior is handled behind the scenes and requires no special handling in the import module. For raw imports, the import subsystem provides the functions ImportModule\_Raw\_Import\_Serialize and ImportModule\_Raw\_Import\_Deserialize to allow the module to save any state information that would be lost when the current script terminates and a new script is executed (for example, xml\_parse\_section internal state).

When the session needs to be suspended, the import subsystem calls ImportModule\_Raw\_Import\_Serialize. The module should perform whatever tasks are necessary to retain its state, storing any data in the run\_data parameter. When the import process resumes, ImportModule\_Raw\_Import\_Deserialize will be called, with the same values in run\_data, allowing the module to restore its state information (resume an xml\_parse, etc.).

#### Supported API Version

5.70 and higher

#### **Syntax**

ImportModule\_Raw\_Import\_Deserialize( module var, import var, session var, filename, run\_data var )

#### **Parameters**

module The Module record of the current module
 import The Import record being executed
 session An opaque structure that is passed to import subsystem helper functions to identify the import operation. The module should not manipulate this value.
 filename The name of the import file. The uploaded import file is stored using a unique temporary filename in the mivadata directory.
 run\_data A structure containing information about this import execution. Members placed into this structure will be retained throughout the import process and passed to other ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success
0 on error

# ImportModule\_Raw\_Import\_End

This function is called at the conclusion of a raw import to allow the module to perform any post-import cleanup that is required.

## Supported API Version

5.70 and higher

#### Syntax

ImportModule\_Raw\_Import\_End( module var, import var, session var, filename, run\_data var )

# Chapter 3: Module API Data Import Feature (import)

#### **Parameters**

module The Module record of the current module

**import** The **Import** record being executed

session An opaque structure that is passed to import subsystem helper functions to identify the

import operation. The module should not manipulate this value.

**filename** The name of the import file. The uploaded import file is stored using a unique temporary

filename in the mivadata directory.

run\_data A structure containing information about this import execution. Members placed into this

structure will be retained throughout the import process and passed to other

ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

1 on success

0 on error

# ImportModule Raw Import Record

This function is called to perform the actual import operations. The import subsystem will call this function repeatedly until it returns -1 (indicating that the import is complete), or 0 (indicating an error).

**Note:** The import module is expected to use the **run\_data** parameter to maintain variables allowing it to track its current position within the file or the internal state of the import operation.

#### Supported API Version

5.70 and higher

#### Syntax

# ImportModule\_Raw\_Import\_Record( module var, import var, session var, filename, run\_data var )

#### **Parameters**

module The Module record of the current module

import The Import record being executed

session An opaque structure that is passed to import subsystem helper functions to identify the

import operation. The module should not manipulate this value.

**filename** The name of the import file. The uploaded import file is stored using a unique temporary

filename in the mivadata directory.

**run\_data** A structure containing information about this import execution. Members placed into this

structure will be retained throughout the import process and passed to other

ImportModule\_Delimited\_Import\_XXX functions.

#### Return Value

- 1 on success
- 0 on error
- -1 when the import has completed

# ImportModule\_Raw\_Import\_Serialize

In order to prevent timeouts, the import subsystem will occasionally suspend and resume the import process. For delimited imports, this behavior is handled behind the scenes and requires no special handling in the import module. For raw imports, the import subsystem provides the functions ImportModule\_Raw\_Import\_Serialize and ImportModule\_Raw\_Import\_Deserialize to allow the module to save any state information that would be lost when the current script terminates and a new script is executed (for example, xml\_parse\_section internal state).

When the session needs to be suspended, the import subsystem calls ImportModule\_Raw\_Import\_Serialize. The module should perform whatever tasks are necessary to retain its state, storing any data in the run\_data parameter. When the import process resumes, ImportModule\_Raw\_Import\_Deserialize will be called, with the same values in run\_data, allowing the module to restore its state information (resume an xml\_parse, etc.).

# Supported API Version

5.70 and higher

#### **Syntax**

ImportModule\_Raw\_Import\_Serialize( module var, import var, session var, filename, run\_data var)

#### **Parameters**

module	The <b>Module</b> record of the current module
import	The Import record being executed
session	An opaque structure that is passed to import subsystem helper functions to identify the import operation. The module should not manipulate this value.
filename	The name of the import file. The uploaded import file is stored using a unique temporary filename in the <b>mivadata</b> directory.
run_data	A structure containing information about this import execution. Members placed into this structure will be retained throughout the import process and passed to other <b>ImportModule_Delimited_Import_XXX</b> functions.

#### Return Value

1 on success

0 on error

JavaScript Object Notation Feature (json)

# ImportModule\_Screen

Miva Merchant calls this function when a user submits information from the Import UI screen in the administration tool (by clicking the module's link under **Utilities > Import Data** in the Admin left menu pane). It provides Admin with instructions on how to build a UI screen for the module.

#### **Syntax**

ImportModule\_Screen ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# ImportModule\_Validate

Miva Merchant calls this function when a user submits information from the Import UI screen in the administration tool. This function provides a place for code to validate any input data that is required to run the module. For example, if the module requires a database name and the fields to be imported, this function must validate that the names of the database and fields exist and can be written to.

#### Syntax

ImportModule\_Validate ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

# JavaScript Object Notation Feature (json)

The **json** feature allows modules to implement functions that can be accessed via AJAX calls to **json.mvc**. The **json.mvc** file provides a mechanism for client-server development where JavaScript (or other client-side code) makes calls to functions provided via **json.mvc**. Input is generally by URI or form POST data, and output is JSON encoded. Modules may also use this mechanism to provide

content without the **<DOCTYPE>** and **<HTML>** tags that are always present in pages loaded through admin.mvc.

Module functions are accessed through a URL to **json.mvc** with the following parameters:

- Function String (required). Must always be set to Module.
- Module\_Code String (required). The code of the module that provides the JSON function.
- Module\_Function String (optional). A value that indicates to the module what function should be performed. Made available to the module as g.Module\_Function.
- Session\_Type String (optional). If not specified, json.mvc does no session verification. If "runtime", json.mvc will load a shopping interface basket, if one exists, or create a new one. If "admin", json.mvc will verify that the caller has valid administrative interface credentials before calling the module.

The **json** feature contains the following function:

Module\_JSON

# Module\_JSON

This function is called when a module function is requested through **json.mvc**. By convention, the module-specific function will be indicated by **g.Module\_Function**, but it is not required. The module should do whatever operation the function entails, outputting a valid JSON formatted response formatted using the helper functions in **json.mv**.

# Supported API Version

Introduced in PR8 Update 5

#### Syntax

Module\_JSON( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

Ignored

# Shopping Interface Activity Logging Feature (log)

Modules that implement the **Shopping Interface Activity Logging** feature (**log**) are called to log display and action operations that occur within the shopping interface. Logging functions provide a place to insert supplementary instructions for Miva Merchant at various points during the shoppers session such as after the display of each screen, after processing each form submission and after processing a UI Exception. The logging functions are counterparts to the system functions that Miva Merchant calls before rather than after each activity. Modules may use this feature to gather information from store shoppers and write the information to a log file. The log information can then be used for statistical analysis of the store, for example traffic volume and patterns, purchase volume and patterns, etc.

The log feature contains the following functions:

- LogModule\_Action
- LogModule\_Screen
- LogModule\_UlException

# LogModule Action

Miva Merchant calls this function after responding to a shopper submitting a form with an Action variable, such as when the shopper clicks **Add to Basket**.

#### Syntax

LogModule\_Action ( module var, action )

#### **Parameters**

module The Module record of the current module

**action** The action code as a string value

#### Return Value

1 on success0 on error

## LogModule Screen

Miva Merchant calls this function after displaying a screen to the shopper.

#### Syntax

LogModule\_Screen ( module var, screen )

#### **Parameters**

module The Module record of the current module

**screen** The screen code as a string value

#### Return Value

1 on success0 on error

# LogModule\_UIException

Miva Merchant calls this function after processing a UI Exception, for example an error with the input received from the shopper.

#### **Syntax**

LogModule\_UIException ( module var, code )

#### **Parameters**

module The Module record of the current module code

The exception code as a string value

#### Return Value

1 on success
0 on error

# Category Configuration Change Notification Feature (not\_cat)

Modules that implement the Category Configuration Change Notification feature (not\_cat) are notified when a category is created or deleted.

The **not\_cat** feature contains the following functions:

- Module\_Notify\_Category\_Delete
- Module\_Notify\_Category\_Insert
- Module\_Notify\_Category\_Update

Category Configuration Change Notification Feature (not\_cat)

# Module\_Notify\_Category\_Delete

This function notifies the module that a category has been deleted. When the database layer updates the status of the category, it calls this function to notify modules that have implemented the **not\_cat** feature.

#### Syntax

Module\_Notify\_Category\_Delete( module var, category var )

#### **Parameters**

module The Module record of the current module

category The Category record of the category being deleted

#### Return Value

Ignored

# Module\_Notify\_Category\_Insert

This function notifies the module that a category has been added. When the database layer updates the status of the category, it calls this function to notify modules that have implemented the **not\_cat** feature.

#### Syntax

Module\_Notify\_Category\_Insert( module var, category var )

#### **Parameters**

module The Module record of the current module

category The Category record of the category being inserted

#### Return Value

Ignored

# Module\_Notify\_Category\_Update

This function notifies the module that a category has been updated. When the database layer updates the status of the category, it calls this function to notify modules that have implemented the **not\_cat** feature.

#### Supported API Version

9.03 and higher (requires Miva Merchant v9.0003 or higher)

#### **Syntax**

#### Module\_Notify\_Category\_Update( module var, category var )

#### **Parameters**

module The Module record of the current module

**category** The **Category** record of the category being updated

#### Return Value

Ignored

# Customer Configuration Change Notification Feature (not cust)

Modules that implement the **Customer Configuration Change Notification** feature (not\_cust) are notified when a customer is created or deleted.

The **not\_cust** feature contains the following functions:

- Module\_Notify\_Customer\_Delete
- Module\_Notify\_Customer\_Insert
- Module\_Notify\_Customer\_Update

# Module\_Notify\_Customer\_Delete

This function notifies the module that a customer has been deleted. When the database layer updates the status of the customer, it calls this function to notify modules that have implemented the **not\_cust** feature.

#### Supported API Version

PR8 and higher

#### Syntax

Module\_Notify\_Customer\_Delete( module var, customer var )

#### **Parameters**

module The Module record of the current module

**customer** The **Customer** record of the customer being deleted

Customer Configuration Change Notification Feature (not\_cust)

#### Return Value

Ignored

# Module\_Notify\_Customer\_Insert

This function notifies the module that a customer has been added. When the database layer updates the status of the customer, it calls this function to notify modules that have implemented the **not\_cust** feature.

#### Supported API Version

PR8 and higher

#### Syntax

Module\_Notify\_Customer\_Insert( module var, customer var )

#### **Parameters**

module The Module record of the current module

**customer** The **Customer** record of the customer being inserted

#### Return Value

Ignored

# Module\_Notify\_Customer\_Update

This function notifies the module that a customer has been updated. When the database layer updates the status of the customer, it calls this function to notify modules that have implemented the **not\_cust** feature.

#### Supported API Version

9.03 and higher (requires Miva Merchant v9.0003 or higher)

#### Syntax

#### Module\_Notify\_Customer\_Update( module var, customer var )

#### **Parameters**

module The Module record of the current module

**customer** The **Customer** record of the customer being updated

#### Return Value

Ignored

# Customer Field Configuration Change Notification Feature (not fields)

Modules that implement the **Customer Field Configuration Change Notification** feature (not\_fields) are notified whenever the Customer Field configuration is updated. This feature allows a module to make changes to templates when an administrator modifies the displays settings for the customer fields.

The not\_fields feature contains the following function:

Module\_Notify\_StandardFields

# Module Notify StandardFields

This function is called when a user changes the settings on the **Customer Fields** tab of the **Edit Store** screen or when the same settings are changed via provisioning. These settings control which customer fields are required, which customer fields are optional, whether the "ship to" or the "bill to" address is the primary address, etc.

#### **Syntax**

Module\_Notify\_StandardFields ( module var, standardfields var )

#### **Parameters**

module The Module record of the current module

standardfields The newly updated values from the sNN\_StandardFields table (a standardfields

record)

#### Return Value

Ignored

Gift Certificate Change Notification Feature (not\_giftcert)

# Gift Certificate Change Notification Feature (not\_giftcert)

Modules that implement the **Gift Certificate Change Notification** feature (**not\_giftcert**) are notified when the status of a gift certificate is changed.

**Note:** The **not\_giftcert** feature is new to Miva Merchant v9.0003.

The **not\_giftcert** feature contains the following functions:

- Module\_Notify\_GiftCertificate\_Created
- Module\_Notify\_GiftCertificate\_Deleted
- Module\_Notify\_GiftCertificate\_Redeemed
- Module\_Notify\_GiftCertificate\_Updated

# Module\_Notify\_GiftCertificate\_Created

This function notifies the module that a gift certificate has been added. When the database layer inserts a gift certificate, it calls this function to notify modules that have implemented the **not\_giftcert** feature.

#### **Syntax**

Module\_Notify\_GiftCertificate\_Created( module var, giftcert var )

#### **Parameters**

module The Module record of the current module

giftcert The GiftCertificate record of the gift certificate being inserted

#### Return Value

Ignored

## Module Notify GiftCertificate Deleted

This function notifies the module that a gift certificate has been deleted. When the database layer deletes a gift certificate, it calls this function to notify modules that have implemented the **not\_giftcert** feature.

#### Syntax

Module\_Notify\_GiftCertificate\_Deleted( module var, giftcert var )

#### **Parameters**

module The Module record of the current module

giftcert The GiftCertificate record of the gift certificate being deleted

#### Return Value

Ignored

# Module\_Notify\_GiftCertificate\_Redeemed

This function notifies the module that a gift certificate has been redeemed. When the runtime layer redeems a gift certificate, it calls this function to notify modules that have implemented the **not\_giftcert** feature.

#### **Syntax**

```
Module_Notify_GiftCertificate_Redeemed( module var, customer var, giftcert var )
```

#### **Parameters**

module The Module record of the current module

customer The Customer record of the user redeeming the gift certificate

giftcert The GiftCertificate record of the gift certificate being redeemed

## Return Value

Ignored

# Module\_Notify\_GiftCertificate\_Updated

This function notifies the module that a gift certificate has been updated. When the database layer updates a gift certificate, it calls this function to notify modules that have implemented the **not\_giftcert** feature.

#### **Syntax**

Module\_Notify\_GiftCertificate\_Updated( module var, giftcert var )

#### **Parameters**

module The Module record of the current module

giftcert The GiftCertificate record of the gift certificate being updated

### Return Value

Ignored

# Image Change Notification Feature (not\_image)

Modules that implement the **Image Change Notification** feature (not\_image) are notified when the status of an image is changed.

The **not\_image** feature contains the following functions:

- Module\_Notify\_Image\_Delete
- Module Notify Image Insert

# Module\_Notify\_Image\_Delete

This function notifies the module that an image has been deleted. When the database layer deletes an image, it calls this function to notify modules that have implemented the **not\_image** feature.

#### Supported API Version

Introduced in Miva Merchant v9.0003

# Syntax

Module\_Notify\_Image\_Delete( module var, image var )

#### **Parameters**

module The Module record of the current module

image The Image record of the image being deleted

#### Return Value

Ignored

# Module\_Notify\_Image\_Insert

This function notifies the module that an image has been inserted. When the database layer inserts an image, it calls this function to notify modules that have implemented the **not\_image** feature.

## Supported API Version

Introduced in Miva Merchant v9.0003

#### Syntax

Module\_Notify\_Image\_Insert( module var, image var )

#### **Parameters**

module The Module record of the current module image The Image record of the image being inserted

#### Return Value

Ignored

# Order Status Change Notification Feature (not\_order)

Modules that implement the **Order Status Change Notification** feature (not\_order) are notified when the status of an Order record is changed.

The **not\_order** feature contains the following functions:

- Module\_Notify\_Order\_BatchChange
- Module\_Notify\_Order\_StatusChange

# Module\_Notify\_Order\_BatchChange

This function notifies the module that one or more **Order** records have changed. When the database layer updates the batch ID of one or more orders, it calls this function to notify modules that have implemented the **not\_order** feature. Multiple order records updated in a single operation (such as when all unbatched orders are batched) cause a single notification with all of the orders passed in a group.

#### Supported API Version

9.00 and higher (requires Miva Merchant v9.0000 or higher)

#### Syntax

Module\_Notify\_Order\_BatchChange ( module var, order\_count, original\_orders var, orders var )

#### **Parameters**

**module** The **Module** record of the current module

order\_count The number of Order records in original\_orders and orders
original\_orders An array of Order records representing the original state of orders
orders An array of Order records representing the new state of orders

OrderItem Status Change Notification Feature (not\_orderitem)

#### Return Value

Ignored

# Module\_Notify\_Order\_StatusChange

This function notifies the module that the status of an order record has changed. When the database layer updates the status of an order, it calls this function to notify modules that have implemented the **not\_order** feature.

#### Syntax

Module\_Notify\_Order\_StatusChange ( module var, original\_status, order var )

#### **Parameters**

module The Module record of the current module

original\_status The original numeric status of the order that was modified

order The full Order record, post modification

#### Return Value

Ignored

# OrderItem Status Change Notification Feature (not orderitem)

Modules that implement the **OrderItem Status Change Notification** feature (**not\_orderitem**) are notified when the status of one or more OrderItem records is changed.

The not\_orderitem feature contains the following functions:

- Module\_Notify\_OrderItem\_Delete
- Module\_Notify\_OrderItem\_StatusChange

# Module\_Notify\_OrderItem\_Delete

This function is called by Miva Merchant when an OrderItem record is deleted. As with **Module\_Notify\_OrderItem\_StatusChange**, Miva Merchant only calls the function once, passing the list of order items deleted.

# Supported API Version

5.73 and higher (new in PR8 Update 7)

# Syntax

# Module\_Notify\_OrderItem\_Delete ( module var, count, original\_orderitems var, orderitems var )

#### **Parameters**

module The Module record of the current module

count The count of changed orderitems

original\_orderitems An array of OrderItem records representing the original state of the items

orderitems An array of OrderItem records representing the new state of the items

#### Return Value

Ignored

# Module\_Notify\_OrderItem\_StatusChange

This function notifies the module that one or more OrderItem records have changed. When the database layer updates the status of one or more OrderItems, it calls this function to notify modules that have implemented the **not\_orderitem** feature. Multiple OrderItem records updated in a single operation (such as when the status of an OrderShipment record changes) cause a single notification with all of the OrderItems passed in a group.

#### **Syntax**

Module\_Notify\_OrderItem\_StatusChange ( module var, orderitem\_count, original\_orderitems var, orderitems var )

#### **Parameters**

module The Module record of the current module

orderitem\_count The number of OrderItem records in original\_orderitems and orderitems

original\_orderitems An array of OrderItem records representing the original state of the items

orderitems An array of OrderItem records representing the new state of the items

#### Return Value

Ignored

OrderReturn Status Change Notification Feature (not\_orderreturn)

# OrderReturn Status Change Notification Feature (not orderreturn)

Modules that implement the **OrderReturn Status Change Notification** feature (**not\_orderreturn**) are notified when the status of one or more OrderReturn records are changed.

The not\_orderreturn feature contains the following function:

• Module\_Notify\_OrderReturn\_StatusChange

# Module\_Notify\_OrderReturn\_StatusChange

This function notifies the module that one or more OrderReturn records have changed. When the database layer updates the status of one or more OrderReturns, it calls this function to notify modules that have implemented the **not\_orderreturn** feature. Multiple OrderReturn records updated in a single operation are grouped into batches by their associated Order ID, resulting in a single notification for each unique Order.

#### **Syntax**

Module\_Notify\_OrderReturn\_StatusChange ( module var, orderreturn\_count, original\_orderreturns var, orderreturns var )

#### **Parameters**

module The Module record of the current module

orderreturn\_count The number of OrderReturn records in original\_orderreturns and

orderreturns

original\_orderreturns An array of OrderReturn records representing the original state of the returns

orderreturns An array of OrderReturn records representing the new state of the returns

#### Return Value

Ignored

# OrderShipment Status Change Notification Feature (not\_ordershpmnt)

Modules that implement the **OrderShipment Status Change Notification** feature (not\_ordershpmnt) are notified when the status of one or more OrderShipment records are changed.

The not\_ordershpmnt feature contains the following function:

• Module\_Notify\_OrderShipment\_StatusChange

# Module Notify OrderShipment StatusChange

This function notifies the module that one or more OrderShipment records have changed. When the database layer updates the status of one or more OrderShipments, it calls this function to notify modules that have implemented the **not\_ordershpmnt** feature. Multiple OrderShipment records updated in a single operation are grouped into batches by their associated Order ID, resulting in a single notification for each unique Order. Notifications are sent whenever the numeric state of a shipment changes or when the tracking information or label information changes.

#### Syntax

Module\_Notify\_OrderShipment\_StatusChange ( module var, ordershipment\_count, original\_ordershipments var, ordershipments var)

#### **Parameters**

module The Module record of the current module

ordershipment\_count The number of OrderShipment records in original\_ordershipments and

ordershipments

original\_ordershipments An array of OrderShipment records representing the original state of the

shipments

ordershipments An array of OrderShipment records representing the new state of the

shipments

#### Return Value

Ignored

# Product Configuration Change Notification Feature (not prod)

Modules that implement the **Product Configuration Change Notification** feature (not\_prod) are notified when a product is created or deleted.

The **not\_prod** feature contains the following functions:

- Module\_Notify\_Product\_Delete
- Module\_Notify\_Product\_Insert
- Module\_Notify\_Product\_Update

Product Configuration Change Notification Feature (not\_prod)

# Module\_Notify\_Product\_Delete

This function notifies the module that a product has been deleted. When the database layer updates the status of the product, it calls this function to notify modules that have implemented the **not\_prod** feature.

#### Supported API Version

PR8 and higher

#### Syntax

Module\_Notify\_Product\_Delete( module var, product var )

#### **Parameters**

module The Module record of the current module

**product** The **Product** record of the product being deleted

#### Return Value

Ignored

# **Module Notify Product Insert**

This function notifies the module that a product has been added. When the database layer updates the status of the product, it calls this function to notify modules that have implemented the **not\_prod** feature.

## Supported API Version

PR8 and higher

#### Syntax

Module\_Notify\_Product\_Insert( module var, product var )

#### **Parameters**

**module** The **Module** record of the current module

**product** The **Product** record of the product being inserted

#### Return Value

Ignored

# Module\_Notify\_Product\_Update

This function notifies the module that a product has been updated. When the database layer updates the status of the product, it calls this function to notify modules that have implemented the **not\_prod** feature.

#### Supported API Version

9.03 and higher (requires Miva Merchant v9.0003 or higher)

#### **Syntax**

Module\_Notify\_Product\_Update( module var, product var )

#### **Parameters**

**module** The **Module** record of the current module

**product** The **Product** record of the product being updated

#### Return Value

Ignored

# SEO Settings Change Notification Feature (not seo)

Modules that implement the **SEO Settings Change Notification** feature (not\_seo) are notified when the SEO Settings configuration changes.

The not\_seo feature contains the following function:

Module\_Notify\_SEOSettings

# Module\_Notify\_SEOSettings

When the domain-level SEO settings are modified, this function is called for all **not\_seo** modules in each configured store, allowing modules to perform any actions that are dependent on the SEO settings. For example, the MMUI and CSSUI modules use this feature to create or destroy the SEO Sitemap page when the domain-level sitemap feature is toggled on or off.

**Note:** This function is called after the SEO settings have been updated.

#### **Syntax**

Module\_Notify\_SEOSettings ( module var, seo\_settings var )

#### Payment Processing Feature (payment)

#### **Parameters**

module The Module record of the current module seo\_settings

A record containing the current SEO settings

#### Return Value

1 on success 0 on error

# Payment Processing Feature (payment)

Modules that implement the **Payment Processing** feature (payment) provide payment processing and order authorization functionality for the shopping and administrative interfaces. The order authorization functions mirror the payment functions but differ slightly in the handling of prompts and field validation. For example, the CVV2 field may be required by the shopping interface but optional in the administrative interface.

The payment feature contains the following functions:

- PaymentModule\_Authorize (deprecated)
- PaymentModule\_LeftNavigation
- PaymentModule\_Manipulate\_Shipping
- PaymentModule\_Order\_Authorize
- PaymentModule\_Order\_Authorize\_Field
- PaymentModule\_Order\_Authorize\_Fields
- PaymentModule\_Order\_Authorize\_Hide\_Additional\_Fields
- PaymentModule\_Order\_Authorize\_Invalid
- PaymentModule\_Order\_Authorize\_Methods
- PaymentModule\_Order\_Authorize\_Prompt
- PaymentModule\_Order\_Authorize\_Validate
- PaymentModule\_Order\_Content
- PaymentModule\_Order\_Delete
- PaymentModule\_Order\_Head
- PaymentModule\_OrderPayment\_Capture
- PaymentModule\_OrderPayment\_Refund
- PaymentModule\_OrderPayment\_VOID
- PaymentModule\_Order\_Tabs
- PaymentModule\_Order\_Update
- PaymentModule\_Order\_Validate
- PaymentModule Payment Description

- PaymentModule\_Payment\_Field
- PaymentModule\_Payment\_Fields
- PaymentModule\_Payment\_Hide\_Additional\_Fields
- PaymentModule\_Payment\_Invalid
- PaymentModule\_Payment\_Message
- PaymentModule\_Payment\_Methods
- PaymentModule\_Payment\_Prompt
- PaymentModule\_Payment\_URL
- PaymentModule Payment Validate
- PaymentModule\_Process (deprecated)
- PaymentModule\_Report\_Description
- PaymentModule\_Report\_Fields
- PaymentModule\_Report\_Label
- PaymentModule\_Report\_Value
- PaymentModule\_Runtime\_Authorize

# PaymentModule\_Authorize

This function authorizes payment. It is called during the checkout process to perform module-specific payment operations when an order is placed from the shopping interface. It is called from the administrative interface when performing a payment operation using an obsolete module.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement <a href="mailto:PaymentModule\_Runtime\_Authorize">PaymentModule\_Runtime\_Authorize</a>.

#### Supported API Version

Supported in versions less than 5.60

#### **Syntax**

PaymentModule\_Authorize ( module var, code, total, pay\_data var, secure\_data var )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

total The total amount of the Order to be authorized

pay\_data Non-secure data that is stored unencrypted in an OrderPayment record secure\_data Secure data that is encrypted and stored in an OrderPayment record

## Payment Processing Feature (payment)

#### Return Value

1 on success

0 on error

# PaymentModule\_LeftNavigation

This function draws (optional) left navigation links. In 5.5 PR5 and later, payment module left navigation links are displayed under the Utilities item. Items can be drawn using **LeftNavigation\_Dot** and **LeftNavigation\_Level**.

#### Syntax

#### PaymentModule\_LeftNavigation ( module var, indent )

#### **Parameters**

module The Module record of the current module

**indent** The appropriate indentation level for module-drawn elements

#### Return Value

Ignored

# PaymentModule\_Manipulate\_Shipping

This function allows a payment module to modify shipping charges or add handling charges. This function is called by **Action\_PaymentManipulateShipping**, which in a default installation is called between **Action\_CalculateShipping** and **Action\_CalculateTax**.

#### **Syntax**

#### PaymentModule\_Manipulate\_Shipping ( module var, code )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

1 on success

0 on error

# PaymentModule\_Order\_Authorize

This function performs an authorization when requested through the administrative interface. When called, the module should perform whatever operations are required when a new authorization is created for an order from the administrative interface.

#### Supported API Version

5.60 and higher

#### **Syntax**

PaymentModule\_Order\_Authorize ( module var, code, order var, amount )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

order The Order record of the order being displayed

**amount** The amount to be authorized

#### Return Value

1 on success0 on error

Note: Error messages should be returned through Error.

# PaymentModule Order Authorize Field

Miva Merchant calls this function when displaying payment information in the administrative interface.

#### Supported API Version

5.70 and higher

# **Syntax**

PaymentModule\_Order\_Authorize\_Field( module var, order var, pay\_data, field\_id )

#### **Parameters**

module The Module record of the current module

order The Order record of the order being displayed

#### Payment Processing Feature (payment)

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods

field\_id A field identifier returned by PaymentModule\_Order\_Authorize\_Fields

#### Return Value

1 on success
0 on error

# PaymentModule\_Order\_Authorize\_Fields

This function defines the input fields required for an order in the administrative interface.

#### Supported API Version

5.70 and higher

#### Syntax

PaymentModule\_Order\_Authorize\_Fields( module var, order var, pay\_data )

#### **Parameters**

module The Module record of the current module

order The Order record of the order being displayed

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods

#### Return Value

A comma separated list of module-specific field identifiers

# PaymentModule\_Order\_Authorize\_Hide\_Additional\_Fields

This function hides module specific input fields — for example, fields that provide configuration information and status to the external authorization process.

#### Supported API Version

5.70 and higher

#### Syntax

PaymentModule\_Order\_Authorize\_Hide\_Additional\_Fields( module var, order var, pay\_data )

#### **Parameters**

module The Module record of the current module

order The Order record of the order being displayed

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods

#### Return Value

1 on success
0 on error

# PaymentModule\_Order\_Authorize\_Invalid

This function indicates whether or not invalid data has been entered on an order form.

#### Supported API Version

5.70 and higher

#### **Syntax**

PaymentModule\_Order\_Authorize\_Invalid( module var, order var, pay\_data, field\_id )

#### **Parameters**

module The Module record of the current module
order The Order record of the order being displayed

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods

field\_id A field identifier returned by PaymentModule\_Order\_Authorize\_Fields

#### Return Value

1 if the field value is invalid 0 if the field value is valid

# PaymentModule\_Order\_Authorize\_Methods

The administrative interface calls this function to display payment methods for order authorization. It loads the **I.methods** structure with information about available payment methods offered via this module, such as **name** and **code**.

# Supported API Version

5.70 and higher

#### **Syntax**

PaymentModule\_Order\_Authorize\_Methods( module var, order var, methods var )

#### Payment Processing Feature (payment)

#### **Parameters**

module The Module record of the current module order

The Order record of the order being displayed

methods A variable that receives an array of supported payment methods

#### Return Value

The count of elements in methods.

# PaymentModule\_Order\_Authorize\_Prompt

This function provides a prompt for the field named in the **field\_id** parameter originally named in **PaymentModule\_Order\_Authorize\_Fields**.

#### Supported API Version

5.70 and higher

#### **Syntax**

PaymentModule\_Order\_Authorize\_Prompt( module var, order var, pay\_data, field\_id )

#### **Parameters**

module The Module record of the current module order The Order record of the order being displayed

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods.

field\_id A field identifier returned by PaymentModule\_Order\_Authorize\_Fields.

#### Return Value

A text prompt that is displayed to the user

# PaymentModule\_Order\_Authorize\_Validate

This function validates payment fields in the administrative interface. When called, the module verifies that all input fields drawn by PaymentModule\_Order\_Authorize\_Field for the specified payment method were filled out correctly, maintaining whatever internal state is required for PaymentModule\_Order\_Authorize\_Invalid to indicate specific fields that failed validation. Typically, a payment module will not interact with an external gateway for this stage of the validation and will instead report gateway errors when PaymentModule\_Authorize or PaymentModule\_Runtime\_Authorize is called.

#### Supported API Version

5.70 and higher

#### **Syntax**

#### PaymentModule\_Order\_Authorize\_Validate( module var, order var, pay\_data )

#### **Parameters**

module The Module record of the current module
order The Order record of the order being displayed

pay\_data A payment method code returned by PaymentModule\_Order\_Authorize\_Methods

#### Return Value

1 if all fields pass validation0 if any fields fail validation

# PaymentModule\_Order\_Content

This function renders the content of a specific tab. If the current value of **tab** does not match one or more of the module's tabs, the content for those tabs should be output using hidden form fields.

# **Syntax**

# PaymentModule\_Order\_Content ( module var, tab, load\_fields, pay\_data, secure\_data )

#### **Parameters**

module The Module record of the current module tab The code of the currently displayed tab

**load\_fields** A boolean value indicating if initial values for all input fields should be loaded from the

database

pay\_data The non-secure payment data from the associated OrderPayment record
secure\_data The decrypted secure payment data from the associated OrderPayment record

#### Return Value

1 on success
0 on error

# PaymentModule\_Order\_Delete

This function is called when an Order is deleted. When an order containing multiple OrderPayment records is deleted, this function is called for each OrderPayment within the Order.

**Note:** Because the order being deleted is not passed to the module as a parameter, the order must be inferred by examining global variables. Refer to *Appendix D: Deleting Orders* on page 311 for further details.

Payment Processing Feature (payment)

#### **Syntax**

#### PaymentModule\_Order\_Delete ( module var, pay\_data, secure\_data )

#### **Parameters**

module The Module record of the current module

pay\_data The non-secure payment data from the associated OrderPayment record
secure\_data The decrypted secure payment data from the associated OrderPayment record

#### Return Value

1 if all fields pass validation

0 if any fields fail validation

# PaymentModule\_Order\_Head

This function allows the module to output content in the HTML <head> tag of the Legacy Order Processing and new Order Management tab screens. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

#### Syntax

#### PaymentModule\_Order\_Head( module var, tab, order var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

order The Order record of the order being displayed

#### Return Value

 ${\bf 1}$  on success

0 on error

# PaymentModule\_Order\_Tabs

This function returns a string that identifies the tabs to be added to the default list of system generated tabs. The string takes the following form:

<code>:<Description>, <code2>:<Description2>

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

#### **Syntax**

#### PaymentModule\_Order\_Tabs ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A string describing the tabs to be added (see description above)

# PaymentModule\_Order\_Update

This function updates content from module-provided order tab(s). It is called when an order is updated using the legacy order processing or when data from a module-specific tab is saved.

#### **Syntax**

PaymentModule\_Order\_Update ( module var, pay\_data var, secure\_data var )

#### **Parameters**

module The Module record of the current module

pay\_data The non-secure payment data from the associated **OrderPayment** record

The decrypted secure payment data from the associated **OrderPayment** record

#### Return Value

1 on success
0 on error

# PaymentModule Order Validate

This function validates content on module-provided order tab(s). It is called when an order is updated using the legacy order processing, or when data from a module-specific tab is saved.

#### Syntax

PaymentModule\_Order\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

Payment Processing Feature (payment)

#### Return Value

1 on success

0 on error

# PaymentModule\_OrderPayment\_Capture

This function performs a full or split capture of a previous authorization when requested through the administrative interface. When called, the module should perform whatever operations are required to capture the provided authorization.

# Supported API Version

5.60 and higher

#### Syntax

PaymentModule\_OrderPayment\_Capture ( module var, order var, auth\_payment var, auth\_pay\_data var, auth\_secure\_data var, amount )

#### **Parameters**

module The Module record of the current module

order The Order for which payment is being captured

auth\_payment The OrderPayment record that is being captured

auth\_pay\_data The deserialized pay\_data from auth\_payment

**amount** The amount to be authorized

#### Return Value

1 on success0 on error

**Note:** Error messages should be returned through **Error**.

# PaymentModule\_OrderPayment\_Refund

This function performs a full or partial refund of a previous capture when requested through the administrative interface. When called, the module should perform whatever operations are required to refund the provided capture.

#### Supported API Version

5.60 and higher

#### Syntax

PaymentModule\_OrderPayment\_Refund ( module var, order var, capture\_payment var, capture\_pay\_data var, capture\_secure\_data var, amount )

#### **Parameters**

module The Module record of the current module

order The Order for which payment is being refunded

capture\_payment The OrderPayment record that is being refunded

capture\_pay\_data The deserialized pay\_data from capture\_payment

**amount** The amount to be refunded

#### Return Value

1 on success0 on error

Note: Error messages should be returned through Error.

# PaymentModule\_OrderPayment\_VOID

This function performs a full or partial void of a previous authorization when requested through the administrative interface. When called, the module should perform whatever operations are required to void the provided authorization.

#### Supported API Version

5.60 and higher

#### Syntax

PaymentModule\_OrderPayment\_VOID ( module var, order var, auth\_payment var, auth\_pay\_data var, auth\_secure\_data var, amount )

#### **Parameters**

module The Module record of the current module

order The Order for which payment is being voided

auth\_payment The OrderPayment record that is being voided

auth\_pay\_data The deserialized pay\_data from auth\_payment

**amount** The amount to be voided

#### Payment Processing Feature (payment)

#### Return Value

1 on success

0 on error

**Note:** Error messages should be returned through **Error**.

# PaymentModule Payment Description

This function describes a payment method provided by this module.

#### Syntax

#### PaymentModule\_Payment\_Description ( module var, code )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

A string describing the payment method

# PaymentModule Payment Field

This function draws a checkout input field. When called, the module outputs any HTML required to display the specified checkout field.

#### Syntax

#### PaymentModule\_Payment\_Field ( module var, code, field\_id )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

field\_id A field identifier returned by PaymentModule\_Payment\_Fields

#### Return Value

1 on success

0 on error

# PaymentModule\_Payment\_Fields

This function defines input fields to be used during the checkout process.

#### Syntax

#### PaymentModule\_Payment\_Fields ( module var, code )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

A comma separated list of module-specific field identifiers

# PaymentModule\_Payment\_Hide\_Additional\_Fields

This function hides module-specific input fields. Payment modules that transfer control to an external checkout process frequently need to pass additional hidden form fields which provide configuration information and status to the external process. This function provides the module with an opportunity to hide any additional form fields that need to be submitted when transferring to the URL returned by PaymentModule\_Payment\_URL.

#### **Syntax**

#### PaymentModule\_Payment\_Hide\_Additional\_Fields ( module var, code )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

1 on success0 on error

# PaymentModule Payment Invalid

This function indicates whether a checkout field should be flagged as invalid.

#### **Syntax**

#### PaymentModule\_Payment\_Invalid ( module var, code, field\_id )

#### **Parameters**

**module** The **Module** record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

field\_id A field identifier returned by PaymentModule\_Payment\_Fields

# Payment Processing Feature (payment)

#### Return Value

1 if the value entered in the field is invalid

**0** if the value entered in the field is valid

# PaymentModule\_Payment\_Message

This function allows an (optional) informational message to be displayed. If the function returns a non-empty string, it is displayed prior to any payment fields during the checkout process.

#### Syntax

# PaymentModule\_Payment\_Message ( module var, code )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

An informational message or an empty string

# PaymentModule Payment Methods

This function returns an array of payment methods supported by this module.

#### Syntax

# PaymentModule\_Payment\_Methods ( module var, methods var )

#### **Parameters**

module The Module record of the current module

**methods** An array of structures containing the following members:

code - A module-specific code identifying this payment method

**name** – A descriptive name for the payment method that will be displayed to the

shopper

#### Return Value

The count of elements in methods

# PaymentModule\_Payment\_Prompt

This function provides a prompt for a checkout input field.

#### **Syntax**

#### PaymentModule\_Payment\_Prompt ( module var, code, field\_id )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

field\_id A field identifier returned by PaymentModule\_Payment\_Fields

#### Return Value

A textual prompt that is displayed to the shopper

# PaymentModule\_Payment\_URL

This function provides support for external payment processing systems. If a payment module needs to hand control of the checkout process to an external website, it may do so by returning a URL from this function. If a URL is returned, the form in the checkout interface where payment information is collected will be submitted to that URL rather than Miva Merchant.

#### Syntax

#### PaymentModule\_Payment\_URL ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A URL (if required) or an empty string to continue the checkout process within Miva Merchant

# PaymentModule\_Payment\_Validate

This function validates checkout fields. When called, the module should verify that all input fields drawn by PaymentModule\_Payment\_Field for the specified payment method were filled out correctly maintaining whatever internal state is required for PaymentModule\_Payment\_Invalid to indicate specific fields that failed validation.

Typically, a payment module will not interact with an external gateway for this stage of the validation, and will instead report gateway errors when PaymentModule\_Authorize or PaymentModule\_Runtime\_Authorize is called.

#### Syntax

PaymentModule\_Payment\_Validate ( module var, code )

# Payment Processing Feature (payment)

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

#### Return Value

1 if all fields pass validation0 if any fields fail validation

# PaymentModule\_Process

This function captures payment information. It is called when processing orders using the legacy order processing interface or when capturing a legacy authorization from the administrative interface. Information regarding the state of the shopping session may be obtained from the global variable **Basket**.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **PaymentModule OrderPayment Capture**.

# Supported API Version

Supported in versions less than 5.60

#### **Syntax**

# PaymentModule\_Process ( module var, pay\_data var, secure\_data var, order var )

#### **Parameters**

module The Module record of the current module

pay\_data
Non-secure payment data from the associated OrderPayment record

secure\_data
Decrypted secure payment data from the associated OrderPayment record

order
The Order record with which the payment transaction is associated

#### Return Value

1 on success0 on error

**Note:** Descriptive error messages may be reported by calling **Message\_Error**.

# PaymentModule\_Report\_Description

This function provides a textual description of a payment record for reports.

#### Syntax

#### PaymentModule\_Report\_Description ( module var, pay\_data )

#### **Parameters**

module The Module record of the current module

pay\_data Non-secure payment data from the associated OrderPayment record

#### Return Value

A string containing a description of the payment method

# PaymentModule\_Report\_Fields

This function defines transaction fields to be displayed in reports and order detail.

#### **Syntax**

PaymentModule\_Report\_Fields ( module var, pay\_data, secure\_data )

#### **Parameters**

module The Module record of the current module

pay\_data Non-secure payment data from the associated **OrderPayment** record secure\_data Decrypted secure payment data from the associated **OrderPayment** record

#### Return Value

A comma separated list of module-specific field identifiers

# PaymentModule\_Report\_Label

This function provides a label for a field displayed in reports and order detail.

#### **Syntax**

PaymentModule\_Report\_Label ( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id A field identifier returned by PaymentModule\_Report\_Fields

#### Payment Processing Feature (payment)

#### Return Value

A text label that is displayed to the user

# PaymentModule\_Report\_Value

This function provides a value for a field displayed in reports and order detail.

#### Syntax

#### PaymentModule\_Report\_Value ( module var, field\_id, pay\_data, secure\_data )

#### **Parameters**

module The Module record of the current module

field\_id A field identifier returned by PaymentModule\_Report\_Fields

pay\_data Non-secure payment data from the associated OrderPayment record

secure\_data Decrypted secure payment data from the associated OrderPayment record

#### Return Value

A value that is displayed to the user

# PaymentModule\_Runtime\_Authorize

This function performs an authorization when an order is created through the shopping interface. When called, the module should perform whatever operations are desired when an order is placed within the shopping interface and create one or more OrderPayment records reflecting the results. Information regarding the state of the shopping session may be obtained from the global variable **Basket**.

**Note:** Modules that implement this function should still implement **PaymentModule\_Authorize** for interoperability.

# Supported API Version

5.60 and higher

#### Syntax

#### PaymentModule\_Runtime\_Authorize ( module var, code, total )

#### **Parameters**

module The Module record of the current module

code A payment method code returned by PaymentModule\_Payment\_Methods

**total** The total amount of the **Order** to be authorized

# Return Value

1 on success0 on error

Note: Descriptive error messages may be reported by calling Message\_Error.

# Module Provisioning Feature (provision store)

Modules that implement the **Module Provisioning** feature (**provision\_store**) provide functionality available through the provisioning system. Provisioning allows automatic instructions for the manipulation of data in the store. The upgrade system makes use of the provisioning system to transfer data from one store to another.

The **provision\_store** feature includes the following function:

• Module\_Provision\_Store

# Module\_Provision\_Store

This function allows a module to extend the Miva Merchant XML provisioning language to support functionality specific to the module. Module specific provisioning functions are triggered by the **<Module>** provisioning tag.

#### Example

#### **Syntax**

# Module\_Provision\_Store ( module var, provide\_xml var )

#### **Parameters**

module The Module record of the current module

provide\_xml The module-specific XML content between the start and end module tags (see the

example above). This data is passed in the format returned by the xml\_parse()

Miva Script function.

#### Return Value

Ignored. The module should use the  $PRV\_LogMessage$  or  $PRV\_LogError$  functions in  $features/prv/prv\_ad.mvc$  to report errors.

# Report Feature (report)

The report subsystem provides a mechanism for the generation, display, and export of reports. The report subsystem implements much of common functionality allowing report module developers to focus on the data itself.

Items that the report subsystem implements include:

- A common configuration interface for reports;
- Handling of date ranges and date intervals for the report module, including proper handling of daylight savings time, leap years, and leap seconds;
- A common data store (the **sNN\_ReportData** table) for reports to store numeric data;
- SVG based line charts:
- **libgd** generated PNG line charts;
- libgd generated pie charts;
- CSV and XLS export;
- Periodic refresh of report data.

Report module developers may choose to use some or all of these features.

The **report** feature includes the following functions:

- ReportModule\_Calculate\_DateRange\_All
- ReportModule\_Capabilities
- ReportModule\_Chart\_Type
- ReportModule\_Display
- ReportModule\_Export
- ReportModule\_Field
- ReportModule\_Fields
- ReportModule\_Format\_Vertical\_Label
- ReportModule\_HTML\_Chart
- ReportModule\_Invalid
- ReportModule\_Prompt
- ReportModule\_Provision\_Settings
- ReportModule\_Run
- ReportModule\_Run\_DateRange
- ReportModule\_Run\_Intervals
- ReportModule\_SVG\_Line\_Chart\_Definition
- ReportModule\_Tabular\_Definition
- ReportModule\_Update
- ReportModule\_Validate

# ReportModule\_Calculate\_DateRange\_All

When the module implements the date\_range capability, this function is called when the user has configured a report with a date range of "All Dates" to determine the earliest and latest date that will be present in the generated report.

# Supported API Version

5.70 and higher

#### **Syntax**

ReportModule\_Calculate\_DateRange\_All( module var, report var, time\_t\_start, time\_t\_end )

#### **Parameters**

module The Module record of the current module

report The Report record being run

**time\_t\_start** The module should set this parameter to the earliest date from its data set.

The value is in UNIX time\_t format.

**time\_t\_end** The module should set this parameter to the latest date from its data set.

The value is in UNIX time\_t format.

#### Return Value

1 on success0 on error

# ReportModule\_Capabilities

This function describes the functionality that the report module provides to the report subsystem.

## Supported API Version

5.70 and higher

#### **Syntax**

ReportModule\_Capabilities ( module var, capabilities var )

#### **Parameters**

module The Module record of the current module

# Chapter 3: Module API Report Feature (report)

#### capabilities

An output structure describing the functionality of the report module API that the module implements. The structure should be populated with the following members:

date\_range – (Boolean) Determines whether the report can be limited to a particular range of dates. If false, the module must implement the ReportModule\_Run function. If true, the module must implement the ReportModule\_Calculate\_DateRange\_All function and either ReportModule\_Run\_DateRange (if date\_interval is false) or ReportModule\_Run\_Intervals (if date\_interval is true).

**date\_interval** – (Boolean) Determines whether the report data can be grouped by a date interval (hour, day, week, month, year). Only meaningful if **date\_range** is also true. If true, the module must implement the **ReportModuel Run Intervals** function.

**display** – (Boolean) Indicates whether the module supports main-screen display or not. If true, the module must implement the **ReportModule\_Display** function.

output\_chart – (Boolean) Indicates whether the module supports some form of chart output or other visualization. If true, the module must implement the ReportModule\_Chart\_Type function and whatever additional functions are dictated by the return value from ReportModule\_Chart\_Type.

**output\_tabular** – (Boolean) If true, the module supports tabular (CSV or XLS) output and must implement the **ReportModule\_Tabular\_Definition** function.

output\_custom – (Boolean) True if the module supports a non-tabular or other custom output format (generally some sort of data export). If true, the module must populate the output\_custom\_name member and implement the ReportModule\_Export function.

**output\_custom\_name** – (Text) If **output\_custom** is true, this value should be populated with text describing the output format that will be displayed to the user.

**provision\_settings** – (Boolean) True if the module supports provisioning of report settings (through the **Report\_Add** provisioning tag). If true, the module must implement the **ReportModule\_Provision\_Settings** function.

#### Return Value

None. The module must not return a value.

# ReportModule\_Chart\_Type

This function is only required if the module implements the **output\_chart** capability. It is called to determine the type of chart that the report module will output.

#### Supported API Version

5.70 and higher

#### Syntax

ReportModule\_Chart\_Type( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being run

#### Return Value

One of the following values:

"html" Indicates that the module will output its own HTML formatted chart. When this value is

returned, the module must implement the ReportModule\_HTML\_Chart function and it

will be called to do the actual chart display.

"svg\_line" Uses the report subsystem to render an SVG line chart. When this value is returned, the

module must implement the ReportModule\_SVG\_Line\_Chart\_Definition and

ReportModule\_Format\_Vertical\_Label functions.

# ReportModule\_Display

This function is called only when the module implements the **display** capability and the **Report** record in question has been configured to be displayed on the Main page. It is called to output a Main-page display of the chart data. Typically, this is a summary of the full report data. For example, the standard report modules in PR8 generate summary displays using sparklines or smaller displays of a subset of the data. The module may output any HTML that is normally valid in the administrative interface from this function.

#### Supported API Version

5.70 and higher

#### Syntax

ReportModule\_Display( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being run

#### Return Value

Ignored

# ReportModule\_Export

This function is called to output a custom export format when the module implements the **output\_custom** capability. The module is responsible for all output (including a starting **<HTML>** tag if the output format is HTML) and may control the output content-type or other response headers using **miva\_output\_header**.

# Chapter 3: Module API Report Feature (report)

#### Supported API Version

5.70 and higher

# **Syntax**

# ReportModule\_Export( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being exported

#### Return Value

1 on success0 on error

# ReportModule\_Field

This function is called to render the HTML input elements for a single configuration field from the list returned by **ReportModule\_Fields**.

#### Supported API Version

5.70 and higher

#### Syntax

# ReportModule\_Field( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The field\_id of the field to render. This value comes from the list of field\_ids

returned by ReportModule\_Fields

#### Return Value

Ignored

# ReportModule Fields

Returns a comma separated list of identifiers, one for each configuration field that should be displayed when adding or editing a report that uses this module.

# Supported API Version

5.70 and higher

# **Syntax**

#### ReportModule\_Fields( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being configured, or NULL if a report is being added

#### Return Value

A comma separated list of field identifiers

# ReportModule\_Format\_Vertical\_Label

This function is presently only required if the module implements the **output\_chart** feature and specifies a chart type of "svg\_line" as the return value from **ReportModule\_Chart\_Type**. It may also be required for new chart types in the future. This function adds whatever formatting is required for proper display of a vertical label in the output chart. For example, it could format dollar amounts using the store's currency formatting module, or add commas to non-currency numeric values.

#### Supported API Version

5.70 and higher

#### Syntax

ReportModule\_Format\_Vertical\_Label( module var, report var, set\_id, data )

#### **Parameters**

module The Module record of the current module

report The Report record being charted

set\_id The set\_id identifying a group of records from the ReportData table for this data set

data The value that should be formatted

#### Return Value

The formatted value of data

**Note:** For SVG line charts, HTML is permitted, however future chart types may not properly handle HTML.

# Chapter 3: Module API Report Feature (report)

# ReportModule\_HTML\_Chart

When **ReportModule\_Chart\_Type** returns "html", this function is called to allow the module to output whatever content is required to visualize or chart the report data. The module is responsible for all output.

# Supported API Version

5.70 and higher

#### Syntax

ReportModule\_HTML\_Chart( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being charted

#### Return Value

1 on success
0 on error

# ReportModule\_Invalid

When ReportModule\_Validate returns 0, this function is called for each field\_id from the list returned by ReportModule\_Fields to determine if the field's prompt should be shown in the invalid state.

## Supported API Version

5.70 and higher

#### **Syntax**

ReportModule\_Invalid( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id The field\_id being queried

#### Return Value

1 if the field is invalid

0 if the field is valid

# ReportModule\_Prompt

This function is called for each field in the list returned by **ReportModule\_Fields** to get a prompt that is displayed to the user.

## Supported API Version

5.70 and higher

## **Syntax**

ReportModule\_Prompt( module var, field\_id )

#### **Parameters**

module The Module record of the current module field\_id The field\_id for which to return the prompt

#### Return Value

The textual prompt for the requested field. HTML is permitted.

# ReportModule\_Provision\_Settings

This function is called only if the module implements the **provision\_settings** capability. This function is called when a report is being added using the **<Report\_Add>** provisioning tag to provision module-specific configuration values for the report.

#### Supported API Version

5.70 and higher

# Syntax

ReportModule\_Provision\_Settings( module var, report var, provide\_xml var )

# **Parameters**

module The Module record of the current module report The Report record being provisioned

provide\_xml The contents of the <Settings> subtag of <Report\_Add>, in parsed provisioning

format

#### Return Value

1 on success0 on error

If the module returns **0**, the provisioned report is not added

# Chapter 3: Module API Report Feature (report)

Note: Modules should report provisioning errors/warnings with PRV\_LogMessage or PRV\_LogError

# ReportModule\_Run

This function is called to execute the report when the module does not implement the **date\_range** capability. When called, the module should do whatever operations are required to gather data for the report. Generally, this will involve making database queries and storing records in the **ReportData** table.

# Supported API Version

5.70 and higher

#### Syntax

ReportModule\_Run( module var, report var )

#### **Parameters**

**module** The **Module** record of the current module

report The Report record being executed

# Return Value

1 on success0 on error

# ReportModule\_Run\_DateRange

This function is called when the module implements the **date\_range** capability and does not implement the **date\_interval** capability. When called, the module should execute whatever queries are required to generate the report data and store the data in the **ReportData** table or in a module-specific format.

# Supported API Version

5.70 and higher

#### Syntax

ReportModule\_Run\_DateRange( module var, report var, time\_t\_start, time\_t\_end )

#### **Parameters**

module The Module record of the current module report The Report record being executed

time\_t\_start The starting date/time for the report execution in UNIX time\_t format

time\_t\_end The ending date/time in UNIX time\_t format

**Important:** The ending time\_t is not inclusive and the report should include data that is < time\_t\_end,  $not \le$  time\_t\_end.

#### Return Value

1 on success

0 on error

# ReportModule\_Run\_Intervals

This function is called to run a report when the module implements both the **date\_range** and **date\_interval** capabilities.

# Supported API Version

5.70 and higher

#### **Syntax**

ReportModule\_Run\_Intervals( module var, report var, time\_t\_start, time\_t\_end, intervals var, interval\_count )

#### **Parameters**

module The Module record of the current module report The Report record being executed

time\_t\_start The starting UNIX time\_t of the overall report execution (i.e., the time\_t\_start of the

first interval)

time\_t\_end The ending UNIX time\_t of the overall report execution (i.e., the time\_t\_end of the

last interval)

intervals An array containing one entry per date interval between time\_t\_start and

time\_t\_end. Each entry has the following members:
 time\_t\_start - The starting time\_t of this interval
 time\_t\_end - The ending time\_t of this interval

interval\_count The number of entries in the intervals array

**Important:** The ending time\_t is not inclusive and the report should include data that is < time\_t\_end,  $not \le$  time\_t\_end.

# Chapter 3: Module API Report Feature (report)

#### Return Value

1 on success

0 on error

# ReportModule\_SVG\_Line\_Chart\_Definition

When the module implements the **output\_chart** capability, and **ReportModule\_Chart\_Type** returns "svg\_line", this function is called by the report subsystem to determine what data sets should be included in the SVG line chart and other controls over the chart display.

#### Supported API Version

5.70 and higher

#### **Syntax**

ReportModule\_SVG\_Line\_Chart\_Definition( module var, report var, chart var )

#### **Parameters**

module The Module record of the current module

report The Report record being charted

**chart** An output structure that controls the resulting SVG line chart. The module should

populate the following members:

dataset\_count - The number of entries in the datasets array

**datasets[]** – An array of structures defining the individual lines in the chart. Each entry should have the following members:

 $set\_id - A$  reference to a  $set\_id$  from a set of **ReportData** table entries that comprise the individual data points for this data set

**color** – The color in which to draw this data set, in #RRGGBB format. A pre-defined color palette is available through the **rpt\_ut.mv** function **Chart\_Color\_Palette**.

name - The name of this data set as it should be displayed to the user

**visible** – (Boolean) True if the data set should be drawn by default. If false, the data set will be present but its checkbox will be unchecked and its line will not be plotted.

#### Return Value

None. The function must not return a value.

# ReportModule\_Tabular\_Definition

This function is called when a report using a module that implements the **output\_tabular** capability is exported in either CSV or XLS format. The function fills out the **definition** parameter to define the rows and columns that are then exported into the requested tabular format by the report subsystem.

#### Supported API Version

5.70 and higher

#### **Syntax**

#### ReportModule\_Tabular\_Definition( module var, report var, definition var )

#### **Parameters**

module The Module record of the current module

report The Report record being exported

**definition** Output. A structure with the following members:

**rows**[] – An array of structures, with the members of each entry in the array defining a single row. The members are as follows:

**start** – The beginning row at which the data defined by this entry is drawn

**type** – One of the following: "values," "reportdata" or "reportdata\_date". Depending on the type specified, differing additional fields are required (see below).

**columns[]** – An array of structures, with the members of each entry in the array defining a single column. The members are as follows:

start – The beginning column at which the data defined by this entry is drawn

**type** – One of the following: "values," "reportdata" or "reportdata\_date". Depending on the type specified, differing additional fields are required (see below).

For type "values", the following additional field is required:

• values[] – An array of literal values that are included in the tabular output beginning at the position specified by "start", and extending horizontally (for a row) or vertically (for a column) for each entry in the values array.

For type "reportdata", the following additional field is required:

• **set\_id** – A **set\_id** defining a set of data points from the **ReportData** table. Each data point is included in the tabular output beginning at the position specified by "start", and extending horizontally (for a row) or vertically (for a column) for each entry in the **values** array.

For **type** "reportdata date", the following additional field is required:

set\_id – A set\_id defining a set of data points from the ReportData table. The dt\_start member of
the ReportData record for each data point is formatted using the output date/time format
extending horizontally (for a row) or vertically (for a column) for each entry in the values array.

Rows are output first in array element order, then columns are output in array element order. Overlapping is allowed, and the output file will include the last generated value for each cell.

#### Return Value

None. This function must not return a value.

# Chapter 3: Module API Report Feature (report)

# ReportModule\_Update

This function is called to store the configuration of a report when the report is added or updated in the administrative interface.

# Supported API Version

5.70 and higher

#### **Syntax**

#### ReportModule\_Update( module var, report var )

#### **Parameters**

module The Module record of the current module

**report** The **Report** record being added or updated. The module should store its configuration

in the structure report:config.

#### Return Value

1 on success0 on error

# ReportModule\_Validate

This function is called to validate the HTML input controls for the fields defined by **ReportModule\_Fields** when a report is being added or updated.

# Supported API Version

5.70 and higher

#### **Syntax**

# ReportModule\_Validate( module var, report var )

#### **Parameters**

module The Module record of the current module

report The Report record being updated or NULL if a report is being added

#### Return Value

1 if all input fields are valid

0 if any input field is invalid

**Note:** Modules may report invalid fields through **ReportModule\_Invalid** or by calling the **FieldError** function.

# Shipping Calculation Feature (shipping)

Modules that implement the **Shipping Calculation** feature (**shipping**) provide one or more shipping methods in the shopping interface (e.g., USPS, FedEx, UPS, etc.)

The shipping feature includes the following functions:

- ShippingModule\_Basket\_Methods
- ShippingModule\_Calculate\_Basket
- ShippingModule\_Description
- ShippingModule\_Enabled\_Methods
- ShippingModule\_Order\_Content
- ShippingModule\_Order\_Delete
- ShippingModule\_Order\_Head
- ShippingModule\_Order\_Tabs
- ShippingModule\_Order\_Update
- ShippingModule\_Order\_Validate
- ShippingModule\_Report\_Fields
- ShippingModule\_Report\_Label
- ShippingModule\_Report\_Value
- ShippingModule\_Shipping\_Methods (deprecated)

# ShippingModule\_Basket\_Methods

This function replaces **ShippingModule\_Shipping\_Methods** in version 5.71 API or higher modules. Its purpose is to generate a list of shipping methods, complete with rate information, that will be presented to the shopper at checkout. The current shopping basket is always stored in the global variable **g.Basket** (as with **ShippingModule\_Shipping\_Methods**).

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

ShippingModule\_Basket\_Methods( module var, packages var, package\_count, methods var )

#### Shipping Calculation Feature (shipping)

#### **Parameters**

module The Module record of the current module.

packages An array of packages with one entry for each box required to ship the basket in

**g.Basket**. Each entry in the array has the following members:

weight - The weight of the package in the store's configured weight units

width - The width of the package in the store's configured dimension units

length - The length of the package in the store's configured dimension units

height - The height of the package in the store's configured dimension units

**items –** An array containing records that describe the contents of this package. Each entry has the following members:

product - A product record (present only if the item maps to a product)

width - The width of the item in the store's configured dimension units

length - The length of the item in the store's configured dimension units

**height** – The height of the item in the store's configured dimension units

weight - The weight of this particular item in the store's configured weight

units

item\_count - The number of entries in the items array

product\_ids - An array of the unique numeric IDs of products in this package

product\_count - The number of entries in the product\_ids array

package\_count

methods

The number of package records in the packages array parameter

An output array that the module populates to describe the shipping methods that are

valid for the basket. Each entry in the array has the following members:

**code** – A code that the module uses to identify this shipping method. Can be

anything but for historical reasons should not include a colon (:)

name - A description of the shipping method that will be displayed to the shopper

price - The price of this shipping method

#### Return Value

The number of shipping methods populated into the methods array

- OR -

0 on error

**Note:** Depending on the caller, error messages are usually not reported.

# ShippingModule\_Calculate\_Basket

This function is called to apply a shipping method provided by the module to the current basket. The module should recalculate or retrieve the previously calculated shipping rate for the indicated method from the **BasketInfo** mechanism, then create the appropriate **BasketCharge** database table entries to reflect the calculated shipping rate.

#### **Syntax**

#### ShippingModule\_Calculate\_Basket ( module var, data )

#### **Parameters**

module The Module record of the current module

data The code of the selected shipping method. This code will match one of the values

returned in the code member of the output array from

ShippingModule\_Shipping\_Methods or ShippingModule\_Basket\_Methods.

#### Return Value

1 on success

0 on error

# ShippingModule\_Description

This function is called to retrieve a user-friendly description of a shipping method.

#### **Syntax**

ShippingModule\_Description ( module var, data )

#### **Parameters**

module The Module record of the current module

data The code of the shipping method for which a description is being queried. The code

matches one of the values in the array returned by ShippingModule\_Basket\_Methods

(new API) or ShippingModule\_Shipping\_Methods (old API).

#### Return Value

A textual description of the shipping method or an empty string if the shipping method code is not recognized

# ShippingModule\_Enabled\_Methods

This function loads a list of enabled shipping methods that the module can return regardless of basket contents.

# Supported API Version

5.61 and higher

#### Syntax

ShippingModule\_Enabled\_Methods ( module var, methods var )

#### Shipping Calculation Feature (shipping)

#### **Parameters**

module The Module record of the current module

**methods** An output array that the module populates to describe the available shipping methods.

Each entry in the array has the following members:

code - A code that the module uses to identify this shipping method. Can be

anything but for historical reasons should not include a colon (:)

name - A description of the shipping method that will be displayed to the shopper

#### Return Value

The number of shipping methods populated into the methods array

- OR -

0 on error

# ShippingModule\_Order\_Content

This function is called to display the content of an Order tab from the list returned by **ShippingModule\_Order\_Tabs**. When the tab parameter matches one of the tabs drawn by this module, it draws the controls (using HTML) meant to be visible on the tab. When the tab parameter does not match, the module hides any input values in HTML hidden **<input>** tags.

#### Syntax

#### ShippingModule\_Order\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module

tab The code of the currently visible tab. It can be one of the module's tabs or one of the

system generated tabs.

load\_fields This value is set to 1 when the page is initialized so the module can load default values

for any input fields. On subsequent calls, the value is 0 and the module is expected to

retain the initially loaded values using hidden input fields, etc.

#### Return Value

1 on success

0 on error

# ShippingModule\_Order\_Delete

This function is called when an order is deleted for the shipping module associated with that order (selected during the checkout process), giving the shipping module a chance to delete any records it may have stored related to that order.

**Note:** Because the order being deleted is not passed to the module as a parameter, the order must be inferred by examining global variables. Refer to *Appendix D: Deleting Orders* on page 311 for further details.

## Syntax

```
ShippingModule_Order_Delete ( module var )
```

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# ShippingModule\_Order\_Head

This function allows the module to output content in the HTML <head> tag of the Legacy Order Processing Edit Order screen and module-specific order tabs in the new Order Management interface. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

#### Syntax

ShippingModule\_Order\_Head( module var, tab, order var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

order The Order record of the order being displayed

#### Return Value

1 on success0 on error

# ShippingModule\_Order\_Tabs

This function is called for the shipping module associated with an order to determine what (if any) additional order tabs should be visible when reviewing the order. **ShippingModule\_Order\_Tabs** 

#### Shipping Calculation Feature (shipping)

returns a string that identifies the tabs to be added to the default list of system-generated tabs. The string takes the following form:

```
<code>:<Description>, <code2>:<Description2>
```

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

# Syntax

```
ShippingModule_Order_Tabs ( module var )
```

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

A string describing the tabs to be added (see description above)

# ShippingModule\_Order\_Update

Admin calls this function when **Update** is selected on the **Edit Order** configuration screen.

#### Syntax

ShippingModule\_Order\_Update ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# ShippingModule\_Order\_Validate

Admin calls this function to validate fields when a user selects **Update** on the **Edit Order** configuration screen.

#### Syntax

ShippingModule\_Order\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if all fields are valid0 if any field is invalid

# ShippingModule\_Report\_Fields

Admin calls this function when displaying a standard batch report. It returns a comma separated list of field identifiers for fields displayed in the batch report.

#### **Syntax**

ShippingModule\_Report\_Fields ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A comma separated list of field identifiers

# ShippingModule\_Report\_Label

Admin calls this function when displaying a standard batch report. It returns a string for use as visible text for display beside the field identified by **field\_id**.

#### **Syntax**

ShippingModule\_Report\_Label ( module var, field\_id )

#### **Parameters**

module The Module record of the current module

field\_id A field identifier from the comma separated list of fields returned by

ShippingModule\_Report\_Fields

#### Return Value

A textual description of the field specified by field\_id

# ShippingModule\_Report\_Value

Admin calls this function when displaying a standard batch report. It returns the value to display in the field identified by **field\_id** for the method identified in **data**.

#### Syntax

#### ShippingModule\_Report\_Value ( module var, field\_id, data )

#### **Parameters**

module The Module record of the current module

field\_id A field identifier from the comma separated list of fields returned by

ShippingModule\_Report\_Fields

data The shipping method code for which report field values are being queried. This will be

one of the shipping method codes from the output array returned by

ShippingModule\_Basket\_Methods or ShippingModule\_Shipping\_Methods

#### Return Value

The textual value of the report field identified by **field\_id** for the indicated shipping method

# ShippingModule\_Shipping\_Methods

This function generates a list of shipping methods, complete with rate information, that will be presented to the shopper at checkout. The current shopping basket is always stored in the global variable g.Basket (as with ShippingModule\_Basket\_Methods).

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Basket\_Methods**.

#### Supported API Version

Supported in versions less than 5.71

#### Syntax

#### ShippingModule\_Shipping\_Methods ( module var, methods var )

#### **Parameters**

**module** The **Module** record of the current module

**methods** An output array that the module populates to describe the shipping methods that are

valid for the basket. Each entry in the array has the following members:

code - A code that the module uses to identify this shipping method. Can be anything

but for historical reasons should not include a colon (:)

**name** – A description of the shipping method that will be displayed to the shopper

price - The price of this shipping method

# Return Value

The number of shipping methods populated into the methods array  $-\mbox{ OR} \mbox{\bf 0}$  on error

# Shipping Label Generation Feature (shipping label)

Modules that implement the **Shipping Label Generation** feature (**shipping\_label**) provide user interface elements and operational code to generate shipping labels.

The **shipping\_label** feature includes the following functions:

- ShippingModule\_Label\_Boxes
- ShippingModule\_Label\_Field (deprecated)
- ShippingModule\_Label\_Fields (deprecated)
- ShippingModule\_Label\_Generate (deprecated)
- ShippingModule\_Label\_Invalid (deprecated)
- ShippingModule\_Label\_Methods
- ShippingModule\_Label\_Package\_Field
- ShippingModule\_Label\_Package\_Fields
- ShippingModule\_Label\_Package\_Invalid
- ShippingModule\_Label\_Package\_Prompt
- ShippingModule\_Label\_Package\_Validate (deprecated)
- ShippingModule\_Label\_Package\_Validate\_Package
- ShippingModule\_Label\_Prompt (deprecated)
- ShippingModule\_Label\_Render
- ShippingModule\_Label\_Shipment\_Field
- $\bullet \quad Shipping Module\_Label\_Shipment\_Fields \\$
- ShippingModule\_Label\_Shipment\_Invalid
- ShippingModule\_Label\_Shipment\_Prompt
- ShippingModule\_Label\_Shipment\_Validate
- ShippingModule Label Validate (deprecated)
- ShippingModule\_Label\_Void\_Shipment
- ShippingModule\_Labels\_Generate

Shipping Label Generation Feature (shipping\_label)

# ShippingModule\_Label\_Boxes

This function allows a module to return a list of shipper-specific boxes that may be used when generating labels. These boxes are displayed alongside the boxes configured by the merchant in the label generation dialog.

Examples of shipper-specific boxes:

- USPS® Large Flat Rate Box
- FedEx® Express Envelope

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

ShippingModule\_Label\_Boxes( module var, ordershipment var, boxes var )

#### **Parameters**

module The Module record of the current module

**ordershipment** The **OrderShipment** record for which label(s) are being generated

boxes An output array describing the boxes supported by the module. Each element has

the following members:

**code** – A unique code that identifies the box

name – A descriptive name of the box that will be displayed to the user

#### Return Value

The number of boxes placed into the **boxes** array

# ShippingModule\_Label\_Field

This function draws a single input field for label generation. HTML is allowed.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Label\_Shipment\_Field**.

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

# Supported API Version

Supported in versions less than 5.70 and greater than or equal to 5.60

#### **Syntax**

ShippingModule\_Label\_Field ( module var, method, field\_id )

#### **Parameters**

module The Module record of the current module

method The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried (from the list of field IDs returned by

ShippingModule\_Label\_Fields)

#### Return Value

Ignored

# ShippingModule\_Label\_Fields

This function returns a comma separated list of field identifiers that will be displayed for the label.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Label\_Shipment\_Fields**.

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

#### Supported API Version

Supported in versions less than 5.71

#### **Syntax**

ShippingModule\_Label\_Fields ( module var, method )

#### **Parameters**

module The Module record of the current module

method The code of the selected shipping method (from ShippingModule\_Label\_Methods)

Shipping Label Generation Feature (shipping\_label)

#### Return Value

A comma separated list of field identifiers

# ShippingModule\_Label\_Generate

This function is called to generate a single shipping label. If a shipment contains multiple packages in PR8 Update 4 or newer, this function will be called once per package.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Labels\_Generate**.

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

# Supported API Version

Supported in versions less than 5.71

#### Syntax

ShippingModule\_Label\_Generate ( module var, method, source\_address var, dest\_address var, weight, ordershipment var )

#### **Parameters**

module The Module record of the current module method The code of the selected shipping method

**source\_address** A structure containing the "From" or origin address of the shipment. Contains the

following members:

name - Shipper name

email – Shipper email address
 phone – Shipper phone number
 fax – Shipper FAX number
 company – Company name
 addr1 – Street address, line 1
 addr2 – Street address, line 2

city - City state - State

**zip** – Zip/postal code

**cntry** – ISO 3166-1 alpha-2 country code (two-letter country code)

dest\_address

A structure containing the "To" or destination address of the shipment. Contains the following members:

name - Recipient name

email - Recipient email address

**phone** – Recipient phone number

fax - Recipient FAX number

company - Company name

addr1 – Street address, line 1

addr2 – Street address, line 2

city - City

state-State

**zip** – Zip/postal code

**cntry** – ISO 3166-1 alpha-2 country code (two-letter country code)

weight The weight of the package being shipped (in store weight units)

ordershipment The OrderShipment record of the shipment for which the label is being generated

After generating the label, the module should populate the following fields in the passed-in **ordershipment** parameter:

:tracknum Receives the tracking number for the generated label (if applicable)
:tracktype Receives the appropriate tracking link code for the tracking number

:cost Receives the actual shipping cost (if available) after the label was generated :label\_type Receives the MIME type of the label content (for example, application/pdf)

:label\_data Receives the contents of the label itself, Base64 encoded

#### Return Value

1 on success

0 on error

# ShippingModule\_Label\_Invalid

If **ShippingModule\_Label\_Validate** returns **0**, **ShippingModule\_Label\_Invalid** is called for each field identifier to determine if a particular field failed validation. If **ShippingModule\_Label\_Invalid** returns **1** for a particular field, that field's prompt is displayed in red in the user interface.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Label\_Shipment\_Invalid**.

### Shipping Label Generation Feature (shipping\_label)

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

# Supported API Version

Supported in versions less than 5.71

#### **Syntax**

ShippingModule\_Label\_Invalid ( module var, method, field\_id )

#### **Parameters**

module The Module record of the current module method The code of the selected shipping method field\_id The ID of the field being queried

#### Return Value

1 if the field is invalid 0 if the field is valid

# ShippingModule\_Label\_Methods

This function returns a list of shipping methods that the module supports for label generation.

**Note:** The existing **ShippingModule\_Label\_Methods** function was modified to add a new **ordershipment** parameter in API version 5.71.

# Supported API Version

New ordershipment parameter in 5.71 (PR8 Update 4)

**Important:** If the API version is 5.71 or higher, the implementation of the function must include the **ordershipment** parameter. If the API version is 5.70 or lower, the implementation of the function must *not* include the **ordershipment** parameter.

#### **Syntax**

ShippingModule Label Methods( module var, methods var, ordershipment var )

#### **Parameters**

module The Module record of the current module

**methods** An output array that describes the shipping methods for which labels may be

generated. Each element in the array contains the following members:

**code** – A unique code describing the shipping method

**name** – The name of the method as it should be displayed to the user

**ordershipment** The **OrderShipment** record for which label(s) are being generated

#### Return Value

The number of shipping methods placed into the methods array.

# ShippingModule\_Label\_Package\_Field

This function draws a single package-level input field.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

# Syntax

ShippingModule\_Label\_Package\_Field( module var, method\_code, field\_id, field\_prefix, fields var, product\_ids var, product\_count )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried

**field\_prefix** The package-specific field prefix for this particular package. When the module

constructs HTML input elements for a package field, it should include the field prefix

in the **NAME** attribute of the HTML element.

 $\textbf{\textit{Example}}{:} < \texttt{input type="text" name="{ 1.field_prefix $ 'example_field' } "}$ 

value="{ encodeentities( l.fields:example\_field ) }">

fields A structure containing the fields for this package. There will be one member for each

HTML input element. Using the example above, the **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **I.fields**, as you can see in

the **VALUE** attribute above.

**product\_ids** An array containing the IDs of the products within the package. Each unique ID is

included only once, even if there are more than one of that particular product

included.

Shipping Label Generation Feature (shipping\_label)

#### Return Value

Ignored

# ShippingModule\_Label\_Package\_Fields

This function returns a comma separated list of field identifiers that will be displayed for each package.

# Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

ShippingModule\_Label\_Package\_Fields( module var, method\_code, field\_prefix, fields var, ordershipment var, product\_ids var, product\_count )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_prefix** The package-specific field prefix for this particular package. When the module

constructs HTML input elements for a package field, it should include the field pre-

fix in the **NAME** attribute of the HTML element.

Example: <input type="text" name="{ l.field\_prefix \$ 'example\_field' }"

value="{ encodeentities( l.fields:example\_field ) }">

fields A structure containing the fields for this package. There will be one member for each

HTML input element. Using the example above, the **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **l.fields**, as you can see in

the **VALUE** attribute above.

**ordershipment** The **OrderShipment** record for which label(s) are being generated

**product\_ids** An array containing the IDs of the products within the package. Each unique ID is

included only once, even if there are more than one of that particular product

included.

**product\_count** The number of entries in the **product\_ids** array.

#### Return Value

A comma separated list of field identifiers that is displayed for each package. This list is broken into individual values, with each value passed as the **field\_id** parameter to the other **ShippingModule\_Label\_Package\_XXX** functions.

# ShippingModule\_Label\_Package\_Invalid

This function indicates whether a package-level field failed validation and should be displayed in the invalid state.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### **Syntax**

ShippingModule\_Label\_Package\_Invalid( module var, method\_code, field\_id, field prefix, fields var, product ids var, product count )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried

**field\_prefix** The package-specific field prefix for this particular package. When the module

constructs HTML input elements for a package field, it should include the field prefix

in the **NAME** attribute of the HTML element.

Example: <input type="text" name="{ 1.field\_prefix \$ 'example\_field' }"</pre>

value="{ encodeentities( l.fields:example\_field ) }">

fields A structure containing the fields for this package. There will be one member for each

HTML input element. Using the example above, the **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example field" in **l.fields**, as you can see in

the **VALUE** attribute above.

**product\_ids** An array containing the IDs of the products within the package. Each unique ID is

included only once, even if there are more than one of that particular product

included.

**product\_count** The number of entries in the **product\_ids** array.

#### Return Value

1 if the field identified by field\_id is invalid0 if the field identified by field\_id is valid

# ShippingModule\_Label\_Package\_Prompt

This function returns the prompt (descriptive text displayed to the left of a field) for the field identified by **field id**.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

# Syntax

ShippingModule\_Label\_Package\_Prompt( module var, method\_code, field\_id, field\_prefix, fields var, product\_ids var, product\_count )

#### Shipping Label Generation Feature (shipping\_label)

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried

field\_prefix The package-specific field prefix for this particular package. When the module

constructs HTML input elements for a package field, it should include the field pre-

fix in the NAME attribute of the HTML element.

Example: <input type="text" name="{ 1.field\_prefix \$ 'example\_field' }"

value="{ encodeentities( l.fields:example\_field ) }">

fields A structure containing the fields for this package. There will be one member for each

HTML input element. Using the example above, the **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **l.fields**, as you can see

in the **VALUE** attribute above.

**product\_ids** An array containing the IDs of the products within the package. Each unique ID is

included only once, even if there are more than one of that particular product

included

**product\_count** The number of entries in the **product\_ids** array.

#### Return Value

Textual prompt. HTML is permitted.

# ShippingModule\_Label\_Package\_Validate

This function is called for each package for which labels will be generated. It allows the module to validate that the input fields were filled out correctly.

**Note:** This function was replaced with **ShippingModule\_Label\_Package\_Validate\_Package** in 5.72 API modules.

#### Supported API Version

5.71 (PR8 Update 4), deprecated in 5.72 (PR8 Update 5)

#### Syntax

ShippingModule\_Label\_Package\_Validate( module var, method\_code, field\_prefix, fields var, product\_ids var, product\_count )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_prefix** The package-specific field prefix for this particular package. When the module

constructs HTML input elements for a package field, it should include the field pre-

fix in the **NAME** attribute of the HTML element.

Example: <input type="text" name="{ 1.field\_prefix \$ 'example\_field' }"</pre>

value="{ encodeentities( l.fields:example\_field ) }">

fields A structure containing the fields for this package. There will be one member for

each HTML input element. Using the example above, the **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **l.fields**, as you

can see in the **VALUE** attribute above.

**product\_ids** An array containing the IDs of the products within the package. Each unique ID is

included only once, even if there are more than one of that particular product

included.

**product\_count** The number of entries in the **product\_ids** array.

#### Return Value

1 if all fields are valid

0 if any field is invalid

**Note:** Modules may report validation errors either through **ShippingModule\_Label\_Package\_Invalid** or by calling the **FieldError** function.

# ShippingModule\_Label\_Package\_Validate\_Package

This function is called for each package for which labels will be generated. It allows the module to validate that the input fields were filled out correctly.

Note: For 5.72 API modules, this function replaces ShippingModule\_Label\_Package\_Validate. ShippingModule\_Label\_Package\_Validate\_Package is functionally identical to ShippingModule\_Label\_Package\_Validate but the ordershipment record and the entire package record are passed in to provide the module access to additional fields that may be required for validation.

#### Supported API Version

5.72 and higher (new in PR8 Update 5)

## **Syntax**

ShippingModule\_Label\_Package\_Validate\_Package ( module var, method\_code, ordershipment var, package var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule Label Methods)

#### Shipping Label Generation Feature (shipping\_label)

ordershipment

The ordershipment record for which labels are being generated

package

A structure containing details about the package being validated. It contains the following members:

weight – The weight (in store weight units) of the package

modulebox\_code - If a module-specified box (from

**ShippingModule\_Label\_Boxes**) was selected for this package, this member will be present with one of the codes from that function and width/length/height will be empty

-OR-

width – Width in store dimension units

length - Length in store dimension units

height - Height in store dimension units

 $\textbf{product\_ids} - An \ array \ of \ unique \ \textbf{product\_ids} \ contained \ in \ this \ package$ 

product count – The number of elements in product ids

**fields** – A structure containing the module's package-level fields for this package. There will be one member for each HTML input element.

The **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **l.fields**, as you can see in the **VALUE** attribute above.

#### Return Value

1 if all fields are valid

0 if any field is invalid

**Note:** Modules may report validation errors either through **ShippingModule\_Label\_Package\_Invalid** or by calling the **FieldError** function.

# ShippingModule Label Prompt

This function returns the prompt for a single label generation field.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule Label Shipment Prompt**.

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

# Supported API Version

Supported in versions less than 5.71

#### **Syntax**

ShippingModule\_Label\_Prompt ( module var, method, field\_id )

#### **Parameters**

module The Module record of the current module method The code of the selected shipping method field\_id The ID of the field being queried

#### Return Value

A prompt for the field. HTML is allowed. The user interface displays the prompts to the left of the field.

# ShippingModule Label Render

If an OrderShipmentLabel record is created with a "label\_type" of "module", this function will be called (in the module identified by the OrderShipmentLabel's **module\_id** field) to draw the shipping label.

This allows a module to handle complex or compound label displays that cannot be displayed simply by setting the Content-Type header. For example, the UPS Ready® Tools module labels consist of two parts—HTML and GIF—and the module uses this mechanism to enable the display of both parts.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

# **Syntax**

ShippingModule\_Label\_Render( module var, label var )

#### **Parameters**

module The Module record of the current module

label The OrderShipmentLabel record being displayed

Shipping Label Generation Feature (shipping\_label)

#### Return Value

Ignored

# ShippingModule\_Label\_Shipment\_Field

The ShippingModule\_Label\_Shipment\_XXX functions in API version 5.71 or higher replace the ShippingModule\_Label\_XXX functions (ShippingModule\_Label\_Field, ShippingModule\_Label\_Fields, ShippingModule\_Label\_Generate, ShippingModule\_Label\_Invalid, ShippingModule\_Label\_Prompt, ShippingModule\_Label\_Validate) from older API versions and allow the module to control fields that are displayed at the shipment level when generating labels.

This function outputs the HTML required to draw a single shipment-level field.

## Supported API Version

5.71 and higher (new in PR8 Update 4)

## Syntax

ShippingModule\_Label\_Shipment\_Field( module var, method\_code, field\_id, ordershipment var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried

ordershipment The OrderShipment record for which label(s) are being generated

#### Return Value

Ignored

# ShippingModule\_Label\_Shipment\_Fields

This function returns a list of shipment-level field identifiers.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

## **Syntax**

ShippingModule\_Label\_Shipment\_Fields( module var, method\_code, ordershipment var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**ordershipment** The **OrderShipment** record for which label(s) are being generated

#### Return Value

A comma separated list of field identifiers. The list is split into individual components and the individual values are passed as the **field\_id** parameter to the other **ShippingModule\_Label\_Shipment\_XXX** functions (**ShippingModule\_Label\_Shipment\_Field**, **ShippingModule\_Label\_Shipment\_Fields**, **ShippingModule\_Label\_Shipment\_Invalid**, **ShippingModule\_Label\_Shipment\_Prompt**, **ShippingModule\_Label\_Shipment\_Validate**).

# ShippingModule\_Label\_Shipment\_Invalid

This function is called when **ShippingModule\_Label\_Shipment\_Validate** returns **0** for each shipment-level field to determine whether the field's prompt should be displayed in the invalid state.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

ShippingModule\_Label\_Shipment\_Invalid( module var, method\_code, field\_id, ordershipment var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

**field\_id** The ID of the field being queried

ordershipment The OrderShipment record for which label(s) are being generated

#### Return Value

1 if the field specified by field\_id is invalid0 if the field specified by field\_id is valid

# ShippingModule\_Label\_Shipment\_Prompt

This function returns the prompt for a single shipment-level input field.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

Shipping Label Generation Feature (shipping\_label)

#### Syntax

# ShippingModule\_Label\_Shipment\_Prompt( module var, method\_code, field\_id, ordershipment var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

field\_id The ID of the field being queried

ordershipment The OrderShipment record for which label(s) are being generated

#### Return Value

A prompt for the field. HTML is allowed. The user interface displays the prompts to the left of the field.

# ShippingModule\_Label\_Shipment\_Validate

This function is called to validate the module's shipment-level fields. Separate calls to **ShippingModule\_Label\_Package\_Validate** are made for each package in the shipment to validate the packages.

## Supported API Version

5.71 and higher (new in PR8 Update 4)

# Syntax

# ShippingModule\_Label\_Shipment\_Validate( module var, method\_code, ordershipment var )

#### **Parameters**

module The Module record of the current module

method\_code The code of the selected shipping method (from ShippingModule\_Label\_Methods)

ordershipment The OrderShipment record for which label(s) are being generated

#### Return Value

1 if all shipment-level fields are valid

0 if any shipment-level field is invalid

**Note:** Modules may report invalid fields through **ShippingModule\_Label\_Shipment\_Invalid** or by calling the **FieldError** function.

# ShippingModule\_Label\_Validate

This function is called to validate the user's input prior to generating a label.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **ShippingModule\_Label\_Shipment\_Validate**.

**Note:** In Miva Merchant PR7 through PR8 Update 3, there is a single package per shipment. Only a single set of the fields returned by **ShippingModule\_Label\_Fields** and drawn by the other **ShippingModule\_Label\_XXX** fields will be displayed at once. In PR8 Update 4 and newer, the fields defined by these deprecated functions will be drawn once per package within a shipment. The module will be called multiple times to generate multiple labels for the shipment when there is more than one package.

## Supported API Version

Supported in versions less than 5.71

#### Syntax

ShippingModule\_Label\_Validate ( module var, method )

#### **Parameters**

method The Module record of the current module

The code of the selected shipping method

#### Return Value

1 if all fields are valid0 if any field is invalid

# ShippingModule Label Void Shipment

This function facilitates the voiding of shipping labels. When called, the module should perform whatever actions are required to invalidate all labels generated for the specified shipment. It is the module's responsibility to delete any **OrderShipmentLabel** records that have been voided — if the void of one or more labels fails, the module should delete the voided labels and leave the unvoided labels alone.

**Note:** If a module has an API version lower than 5.72, the VOID functionality is automatically disabled in the user interface when dealing with labels from that module.

Shipping Label Generation Feature (shipping\_label)

# Supported API Version

5.72 and higher (new in PR8 Update 5)

#### Syntax

ShippingModule\_Label\_Void\_Shipment ( module var, ordershipment var )

#### **Parameters**

module The Module record of the current module

ordershipment The OrderShipment for which label(s) are to be voided

#### Return Value

1 on success0 on error

# ShippingModule\_Labels\_Generate

This function replaces **ShippingModule\_Label\_Generate** and is called to generate one or more shipping labels for an OrderShipment record. When called, the module should make whatever API calls are required to generate the label(s). The module is responsible for inserting one or more OrderShipmentLabel records containing the label data.

#### Supported API Version

5.71 and higher (new in PR8 Update 4)

#### Syntax

ShippingModule\_Labels\_Generate( module var, method\_code, source\_address var, dest\_address var, ordershipment var, package\_list var, package\_count var)

#### **Parameters**

module The Module record of the current module method\_code The code of the selected shipping method

source\_address A structure containing the "From" or origin address of the shipment. Contains the

following members:

name - Shipper name

email – Shipper email address
 phone – Shipper phone number
 fax – Shipper FAX number
 company – Company name
 addr1 – Street address, line 1

```
addr2 - Street address, line 2
                         city - City
                         state - State
                         zip – Zip/postal code
                         cntry – ISO 3166-1 alpha-2 country code (two-letter country code)
dest_address
                    A structure containing the "To" or destination address of the shipment. Contains
                    the following members:
                         name - Recipient name
                         email - Recipient email address
                         phone - Recipient phone number
                         fax - Recipient FAX number
                         company - Company name
                         addr1 - Street address, line 1
                         addr2 - Street address, line 2
                         city - City
                         state - State
                         zip – Zip/postal code
                         cntry – ISO 3166-1 alpha-2 country code (two-letter country code)
ordershipment
                    The OrderShipment record for which labels are being generated
                    An array of packages within this shipment. The module is guaranteed to receive
                    at least one package. Each element in the array contains the following members:
                         weight – The weight (in store weight units) of the package
                         modulebox_code - If a module-specified box (from
                         ShippingModule_Label_Boxes) was selected for this package, this
                         member will be present with one of the codes from that function and
                         width/length/height will be empty
                         -OR-
                         width - Width in store dimension units
                         length - Length in store dimension units
                         height - Height in store dimension units
                         product_ids - An array of unique product_ids contained in this package
                         product_count - The number of elements in product_ids
```

package\_list

# Framework Support Feature (skins)

**fields** – A structure containing the module's package-level fields for this package. There will be one member for each HTML input element.

```
Example: <input type="text" name="{ 1.field_prefix $
   'example_field' }" value="{ encodeentities
        ( 1.fields:example_field ) }">
```

The **NAME** attribute of the input field is constructed using **field\_prefix** (the package specific prefix) and a field-specific component (the text 'example\_field'). In this case, the value of the field will be available to the module as the member "example\_field" in **I.fields**, as you can see in the **VALUE** attribute above.

package\_count

The number of packages in package\_list

#### Return Value

1 on success0 on error

# Framework Support Feature (skins)

Modules that implement the **Framework Support** feature (**skins**) support being saved within a Framework.

The skins feature includes the following functions:

- SkinsComponentModule\_Description
- SkinsComponentModule\_Export (deprecated)
- SkinsComponentModule\_Export\_Item

# SkinsComponentModule\_Description

This function returns a textual description of the component module's functionality for a single item. In the current software, this text is displayed as a tooltip when hovering over the **Help** link next to a framework component when saving a framework.

#### **Syntax**

# SkinsComponentModule\_Description ( module var, item var )

### **Parameters**

module The Module record of the current module

item

The **item** record of the item for which to return a description. Some modules will use this parameter to determine what pages reference the item and include a list of pages in the description.

#### Return Value

A textual description. HTML should not be used.

# SkinsComponentModule\_Export

This function is called when saving a framework to allow the module to export the settings for all items and pages that reference the component. The output should be in Miva Merchant XML provisioning format and be placed into the **output** parameter.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should implement **SkinsComponentModule Export Item**.

#### Supported API Version

Supported in versions less than 5.60

#### Syntax

SkinsComponentModule\_Export ( module var, output var )

#### **Parameters**

```
module The Module record of the current module

output A variable that will receive the provisioning XML
```

#### Return Value

Ignored

# SkinsComponentModule\_Export\_Item

When saving a framework, the system calls this function once for each item registered to a component. When called, the module should output the XML provisioning code required to replicate the settings for the specified item on every page to which it is assigned. Typically, a module would loop through the list of pages to which the item is assigned, exporting the settings for each page separately.

#### Example

```
<MvFOREACH ITERATOR = "l.page" ARRAY = "l.pages" COUNT = "{
   g.Module_Feature_TUI_DB ].PageList_Load_Item_Runtime( l.item:id, l.page ) }">
   ...
   generate provisioning code for l.item on page l.page
   ...
</MvFOREACH>
```

Store Selection Feature (storeselui)

**Note:** The provisioning code should be appended to the **output** parameter.

## Supported API Version

5.60 and higher

#### **Syntax**

SkinsComponentModule\_Export\_Item ( module var, item var, output var )

#### **Parameters**

module The Module record of the current module

item An Item record identifying the item for which to generate provisioning code

**output** An output variable which receives the generated provisioning code

#### Return Value

Ignored

# Store Selection Feature (storeselui)

Modules that implement the **Store Selection** feature (**storeselui**) provide a user interface that allows shoppers to select a store when a domain contains multiple stores.

**Note:** The **storeselui** and **storeui** features are restricted. The software will prevent third party modules implementing these features from being installed.

The storeselui feature includes the following functions:

- UIModule\_StoreSelection\_Content
- UIModule\_StoreSelection\_Render
- UIModule\_StoreSelection\_Tabs
- UIModule\_StoreSelection\_Thumbnail
- UIModule\_StoreSelection\_Update
- UIModule\_StoreSelection\_Validate

# UIModule\_StoreSelection\_Content

Miva Merchant calls this function from the selected **storeselui** module when the Admin displays the **Domain Settings** screen.

#### **Syntax**

# UIModule\_StoreSelection\_Content ( tab, load\_fields )

#### **Parameters**

tab The code of the currently displayed tab

**load\_fields** 1 if the module should initialize the page state (global variables),

0 if the page state has already been initialized

#### Return Value

1 on success
0 on error

# UIModule\_StoreSelection\_Render

This function is called to render a store selection UI when there is more than one store in the domain and the parameters for a page hit do not indicate a specific store.

#### **Syntax**

UIModule\_StoreSelection\_Render ()

#### Return Value

Ignored

# UIModule\_StoreSelection\_Tabs

Admin calls this function when displaying the **Domain Settings** screen. It returns a tab list using the following format:

```
<code>:<Description>, <code2>:<Description2>
```

Codes must be unique across modules. Miva Merchant recommends that the codes include the module code. The module may specify as many <code><code>:<Description></code> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

#### Syntax

UIModule\_StoreSelection\_Tabs ()

#### Return Value

A tab list (as described above)

Store Selection Feature (storeselui)

# **UIModule\_StoreSelection\_Thumbnail**

This function returns a URI or URL to a graphic that contains a thumbnail example of what the store selection layout looks like.

**Note:** This function is not called in the current version of the software as alternate store selection layout has been disabled since PR5.

### Syntax

UIModule\_StoreSelection\_Thumbnail ()

#### Return Value

A URI relative to the base URL for graphics or URL. The default store selection layout thumbnail is 200x150 pixels.

# UIModule\_StoreSelection\_Update

This function is called when the user presses the **Update** button to update the fields on the tab(s) drawn by **UlModule\_StoreSelection\_Content**.

#### Syntax

UIModule\_StoreSelection\_Update ()

#### Return Value

1 on success

0 on error

# UIModule\_StoreSelection\_Validate

This function is called to validate the fields on the tab(s) drawn by UIModule\_StoreSelection\_Content, prior to calling UIModule\_StoreSelection\_Update.

#### Syntax

UIModule\_StoreSelection\_Validate ()

#### Return Value

1 on success

0 on error

# Shopping UI Feature (storeui)

Modules that implement the **Shopping UI** feature (**storeui**) provide a basic structure for the shopping interface and are responsible for creating an initial set of pages and items when a store is created.

**Note:** The **storeselui** and **storeui** features are restricted. The software will prevent third party modules implementing these features from being installed.

The **storeui** feature includes the following functions:

- StoreUIModule\_Create\_Frameworks
- StoreUIModule\_Create\_Items
- StoreUIModule\_Create\_Pages
- StoreUIModule\_Dispatch
- StoreUIModule\_Exception
- StoreUlModule\_Thumbnail

# StoreUIModule\_Create\_Frameworks

When a new store is created, this function is called in the UI module that the user selected for the new store so the module can register any default frameworks that should be present in a newly created store. Frameworks are registered by calling the Skin\_Directory\_Verify and SKIN\_Sample\_Retrieve functions in features/tui/tui\_ut.mv.

# Supported API Version

5.60 and higher

#### **Syntax**

StoreUIModule\_Create\_Frameworks ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success
0 on error

#### **Example**

# Chapter 3: Module API Shopping UI Feature (storeui)

# StoreUlModule Create Items

When a new store is being created, this function is called to allow the selected UI module to create the default list of items for the new store. Items are typically registered by calling the TemplateManager\_Create\_Item function in features/tui/tui\_mgr.mv. This function is called before StoreUIModule\_Create\_Pages so that the items will be registered with the template manager before the default set of pages is created.

#### Syntax

StoreUIModule\_Create\_Items ( module var )

#### **Parameters**

</MVFUNCTION>

module The Module record of the current module

#### Return Value

1 on success 0 on error

# StoreUIModule\_Create\_Pages

When a new store is being created, this function is called to allow the selected UI module to create the default set of pages for the new store. The pages are created by calling the <code>TemplateManager\_Create\_Page</code> function in <code>features/tui/tui\_mgr.mv</code>. UI Modules should pass their own module ID as the <code>ui\_id</code> parameter to that function, which will prevent the user from deleting the page manually.

#### **Syntax**

StoreUIModule\_Create\_Pages ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# StoreUIModule\_Dispatch

This function is called prior to rendering a page to allow the UI module to intercept the page render request. For example, MMUI and CSSUI use this function to turn the dynamic page code ACNT into either ACED or ACAD depending on whether a shopper is logged into their customer account. Other uses include preventing display of certain pages unless certain criteria are met (such as minimum order requirements) or performing session verification to make sure that a secondary access token is present before displaying sensitive information

#### **Syntax**

StoreUIModule\_Dispatch ( module var, page var )

#### **Parameters**

module The Module record of the current module

page (Input and output) On input, the original requested page code. The module may change

this value to cause a different page to be rendered.

#### Return Value

- 1 if the page render should proceed as normal
- **0** if the module wants to prevent the default page render
- -1 on error

# StoreUIModule\_Exception

This function is called when a UI exception occurs. UI exceptions can occur during input validation prior to an action, or by a component module using the **TemplateManager\_Throw\_Exception** function. This allows the UI module to take whatever action is required to handle the exception, for example, setting an error message and/or redirecting the user to an error page.

# Shopping UI Feature (storeui)

Following is a list of the system UI exception codes as of PR8 Update 5. Modules may also throw other exception codes.

- inventory\_limited
- inventory\_out
- basket\_changed
- order\_invalid\_info
- order\_invalid\_payment
- order\_authorizationfailure
- order\_alreadyprocessed
- order\_basketchanged
- order\_invoice
- page\_not\_found
- product\_not\_found
- category\_not\_found
- product\_attributes
- invalid\_variant
- upsell\_attributes
- upsell\_attributes\_multiple
- upsell\_toomanyselected
- customer\_invalid\_login
- customer\_email\_error
- customer\_email\_sent
- customer\_invalid\_addinfo
- customer\_invalid\_editinfo
- affiliate\_invalid\_login
- affiliate\_email\_error
- affiliate\_email\_sent
- affiliate\_invalid\_addinfo
- affiliate\_invalid\_editinfo
- store\_offline
- no\_payment\_methods
- no\_shipping\_methods
- customer\_invalid\_session
- affiliate\_invalid\_session
- checkout\_invalid\_session
- invoice\_invalid\_session

#### **Syntax**

#### StoreUIModule\_Exception ( module var, code )

#### **Parameters**

module The Module record of the current module

**code** The code of the UI exception

#### Return Value

1 on success

0 on error

# StoreUlModule\_Thumbnail

This function returns a URI or URL to a graphic that contains a thumbnail example of what the UI module's shopping interface looks like.

**Note:** This function is not called in the current version of the software.

#### **Syntax**

StoreUlModule\_Thumbnail ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A URI relative to the base URL for graphics or URL. The MMUI thumbnail is 200x150 pixels.

# Store Wizards Feature (storewizard)

Modules that implement the **Store Wizards** feature (**storewizard**) provide top-level wizard functionality to accomplish common tasks in the Administrative Interface at the store level for a store.

The **storewizard** feature includes the following functions:

- StoreWizardModule\_Action
- StoreWizardModule\_Content
- StoreWizardModule\_Icon
- StoreWizardModule\_Logo
- StoreWizardModule\_Privileges
- StoreWizardModule\_Title
- StoreWizardModule\_Validate

Store Wizards Feature (storewizard)

• StoreWizardModule\_Validate\_Step

# StoreWizardModule\_Action

Miva Merchant calls this function after the user completes all steps in the wizard and after a successful return from **StoreWizardModule\_Privileges** and **StoreWizardModule\_Validate**. It can be used to deliver instructions about what to do with or in reaction to the input submitted by the user.

#### Syntax

StoreWizardModule\_Action ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

**0** on error

# StoreWizardModule\_Content

Miva Merchant calls this function each time the wizard displays a new screen. It provides the instructions for the main portion of the wizard screen.

#### Syntax

StoreWizardModule\_Content ( module var, step, load\_fields )

#### **Parameters**

module The Module record of the current module

**step** The current step. Used to display only certain information on a given screen.

load\_fields Used to load initial data

#### Return Value

1 on success

**0** on error

# StoreWizardModule Icon

This function is used to define the path and name of the icon graphic that is displayed on the **admin.mv** front page under the store section.

Note: Icons have not been used in wizard modules since PR5.

# Supported API Version

Supported in all versions but not called

#### **Syntax**

StoreWizardModule\_Icon ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A string showing the path to the icon image

# StoreWizardModule\_Logo

This function is used to define the path and name of the logo graphic that is displayed in the upper left corner of the wizard. It is called each time the wizard displays a new screen.

# **Syntax**

StoreWizardModule\_Logo ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A string showing the path to the logo image

# StoreWizardModule\_Privileges

Miva Merchant calls this function when the Admin expands the store portion of its left menu.

#### Syntax

StoreWizardModule\_Privileges ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

- 1 if the current user has privileges to run the wizard
- 0 if the current user does not have privileges to run the wizard

Store Wizards Feature (storewizard)

# StoreWizardModule\_Title

Miva Merchant calls this function each time the Admin displays a new wizard screen.

#### Syntax

StoreWizardModule\_Title ( module var, step )

#### **Parameters**

module The Module record of the current module

**step** The current step. Used to display different titles for different steps.

#### Return Value

A string showing the title to display

# StoreWizardModule\_Validate

Miva Merchant calls this function after the user completes all the steps in the wizard. Instructions should be included in the function on an acceptable format for information the Administrator submits.

#### Syntax

StoreWizardModule\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# StoreWizardModule\_Validate\_Step

Miva Merchant calls this function each time the Admin receives input from the submission of a wizard screen (one screen per step). In case of failure, the Admin will not allow the wizard to move onto the next screen. Instructions should be included in the function on an acceptable format for information the Administrator submits. Flags can be set for use by the UI to indicate an invalid state.

#### Syntax

StoreWizardModule\_Validate\_Step ( module var, step )

#### **Parameters**

module The Module record of the current module

step The numeric identifier (1 through N) of the step being validated

#### Return Value

1 on success

0 on error

# System Extensions Feature (system)

Modules that implement the **System Extensions** feature (**system**) hook into the standard actions in **merchant.mv** allowing the module to augment, modify or replace the functionality of the standard action handler, or to implement new screens or actions.

The system feature includes the following functions:

- SystemModule\_Action
- SystemModule\_Screen
- SystemModule\_UIException

# SystemModule Action

Miva Merchant calls this function for every form submit that passes an action value or list of values. With this method, every system module is called for each action.

#### **Syntax**

SystemModule\_Action ( module var, action )

#### **Parameters**

module The Module record of the current module

**action** The current action passed by merchant from the list of actions passed by the form submit

#### Return Value

1 on success

0 on error

-1 exits **SystemModule\_Action** without performing default behavior

Sales Tax Calculation Feature (tax)

# SystemModule\_Screen

Miva Merchant calls this function when displaying a screen.

#### Syntax

SystemModule\_Screen ( module var, screen )

#### **Parameters**

module The Module record of the current module

**screen** The global screen value passed through a form or as part of the URL

(e.g., Screen=CTGY)

#### Return Value

1 on success

0 on error

-1 exits SystemModule\_Screen without performing default behavior

# SystemModule\_UIException

Miva Merchant calls this function during a UI Exception.

#### Syntax

SystemModule\_UIException ( module var, exception )

#### **Parameters**

module The Module record of the current module

**exception** The code value of the exception

#### Return Value

1 on success

0 on error

-1 exits SystemModule\_UIException without performing default behavior

# Sales Tax Calculation Feature (tax)

Modules that implement the **Sales Tax Calculation** feature (tax) provide sales tax calculation for a store.

The tax feature includes the following functions:

- TaxModule\_Calculate\_Basket
- TaxModule\_Order\_Field
- TaxModule\_Order\_Fields
- TaxModule\_Order\_Hide\_Fields
- TaxModule\_Order\_Invalid
- TaxModule\_Order\_Prompt
- TaxModule\_Order\_Required
- TaxModule\_Order\_Validate
- TaxModule\_ProcessOrder

# TaxModule\_Calculate\_Basket

Miva Merchant calls this function when responding to a form submission from the shopper containing **Action = CTAX**. This function should contain the instructions necessary to insert a 'TAX' basket charge in the basket.

#### **Syntax**

```
TaxModule_Calculate_Basket ( module var )
```

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# TaxModule\_Order\_Field

This function creates the HTML code needed to display the tax field identified by the **field\_id** parameter (set in **TaxModule\_Order\_Fields**).

#### Syntax

TaxModule\_Order\_Field ( module var, field\_id )

#### **Parameters**

module The Module record of the current module field\_id The code set in TaxModule\_Order\_Fields

Sales Tax Calculation Feature (tax)

#### Return Value

1 if HTML is output

0 if nothing is set

Note: The return value is ignored by Miva Merchant.

# TaxModule Order Fields

The Miva Merchant UI calls this function at each checkout screen to determine which, if any, tax fields to display.

#### Syntax

TaxModule\_Order\_Fields ( module var )

#### **Parameters**

module The **Module** record of the current module

#### Return Value

A comma separated list of field identifiers of the form:

id[,id,id,id-]

# TaxModule Order Hide Fields

The Miva Merchant UI calls this function when displaying the OSEL screen. The purpose of this function is to insert hidden fields on checkout screens to carry data through, as form variables, from earlier screens (such as OINF) through later screens (such as OSEL) until the shopper is able to submit a form with Action = CTAX.

#### **Syntax**

TaxModule\_Order\_Hide\_Fields ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

Ignored

# TaxModule Order Invalid

The Miva Merchant UI consults this function to determine whether to highlight a given field to indicate that the last information the shopper entered in that field was invalid. The function itself may make that determination based on an invalidity flag set in TaxModule\_Order\_Validate. The strategy is the same as used for PaymentModule\_Payment\_Invalid and PaymentModule\_Payment\_Validate.

#### **Syntax**

```
TaxModule_Order_Invalid ( module var, field_id )
```

#### **Parameters**

```
module The Module record of the current module field_id The code set in TaxModule_Order_Fields
```

#### Return Value

1 if the field submission is invalid 0 if the field submission is valid

# TaxModule\_Order\_Prompt

This function returns a text string for display beside the tax field identified by the **field\_id** parameter (set in **TaxModule\_Order\_Fields**).

#### Syntax

```
TaxModule_Order_Prompt ( module var, field_id )
```

### **Parameters**

```
module The Module record of the current module field_id The code set in TaxModule_Order_Fields
```

#### Return Value

A string showing the tax field prompt text

# TaxModule\_Order\_Required

The Miva Merchant UI consults this function to determine whether or not a field needs validation, such as would be necessary to make sure that the shopper made a selection on a field.

#### **Syntax**

TaxModule\_Order\_Required ( module var, field\_id )

Sales Tax Calculation Feature (tax)

#### **Parameters**

module The Module record of the current module field\_id The code set in TaxModule\_Order\_Fields

#### Return Value

1 if the field needs validation 0 if the field is not required

# TaxModule\_Order\_Validate

Miva Merchant calls Action\_Save\_OrderInformation in response to a form submission containing Action=ORDR, as is the case with the form shoppers submit from the OINF page. The function provides an opportunity to check if the tax information is acceptable. One use is to set invalidity flags for consultation by TaxModule\_Order\_Invalid. TaxModule\_Order\_Invalid can check the status of a given flag (for example, an ID number) and decide whether to declare the submission invalid on that basis. (For another implementation of the same strategy, see PaymentModule\_Payment\_Validate and PaymentModule\_Payment\_Invalid.) If the function returns 0, the UI will return to the previous page. The UI will know from the invalidity flags that the previous submissions were invalid and it will highlight the relevant input fields appropriately.

## **Syntax**

TaxModule\_Order\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success
0 on error

# TaxModule\_ProcessOrder

Miva Merchant calls this function after creating an order but before calling **FulfillmentModule\_Process\_Order**. The function provides an opportunity to perform operations at the time the shopper places the order, such as calculating taxes in real time.

#### **Syntax**

TaxModule\_ProcessOrder ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# Store Utilities Feature (util)

Modules that implement the **Store Utilities** feature (**util**) provide user interface elements and operations available under the **Utilities** link in the left navigation of the Administrative Interface.

The util feature includes the following functions:

- StoreUtilityModule\_Action
- StoreUtilityModule\_LeftNavigation
- StoreUtilityModule\_Screen
- StoreUtilityModule\_Validate

# StoreUtilityModule\_Action

The Miva Merchant Admin calls this function if StoreUtilityModule\_Validate returns a success.

#### **Syntax**

StoreUtilityModule\_Action ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# StoreUtilityModule\_LeftNavigation

The Miva Merchant Admin calls this function to determine what to place in its left menu. The **indent** parameter tells Admin at what depth of indentation to display the link. For example, an **indent** value of '2' would represent the second indent level. The variable Screen=SUTL can be placed in the link, which will cause Admin to call **StoreUtilityModule\_Screen**.

#### **Syntax**

StoreUtilityModule\_LeftNavigation ( module var, indent )

Store Utilities Feature (util)

#### **Parameters**

module The Module record of the current module

**indent** The indentation level for the link position in the Admin

#### Return Value

1 on success

0 on error

# StoreUtilityModule\_Screen

This function tells the Miva Merchant Admin what to display as main content when rendering the SUTL screen.

#### **Syntax**

StoreUtilityModule\_Screen ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# StoreUtilityModule\_Validate

Miva Merchant Admin calls this function when processing a form submission that includes Action=SUTL.

#### Syntax

StoreUtilityModule\_Validate ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 on success

0 on error

# Affiliate Add/Edit Screen Feature (vis\_affil)

Modules that implement the Affiliate Add/Edit Screen feature (vis\_affil) can add tabs to the Affiliate Add/Edit screen, and are notified when Affiliates are created, updated, or deleted from the Affiliate Add/Edit screen.

The vis\_affil feature includes the following functions:

- Module\_Affiliate\_Content
- Module\_Affiliate\_Delete
- Module\_Affiliate\_Head
- Module\_Affiliate\_Insert
- Module\_Affiliate\_Tabs
- Module Affiliate Update
- Module\_Affiliate\_Validate

## Module\_Affiliate\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **affiliate:id** is **0**, the system is requesting tabs for the **Add Affiliate** screen. Otherwise, tabs are being requested for the **Edit Affiliate** screen and **affiliate** will contain the record being edited. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for the Affiliate being edited.

#### Syntax

#### Module\_Affiliate\_Content ( module var, tab, load\_fields, affiliate var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

**affiliate** The **Affiliate** record that is being edited or NULL if adding a record

#### Return Value

1 on success
0 on error

## Affiliate Add/Edit Screen Feature (vis\_affil)

Note: Error messages should be reported via the Error function.

## Module\_Affiliate\_Delete

This function performs module-specific actions when an Affiliate is deleted. It is called prior to the Affiliate record being deleted from the database.

#### **Syntax**

## Module\_Affiliate\_Delete ( module var, affiliate var )

#### **Parameters**

module The Module record of the current module affiliate The Affiliate record that will be deleted

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

## Module\_Affiliate\_Head

This function allows the module to output content in the HTML <head> tag of the Add/Edit Affiliate screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

#### Syntax

## Module\_Affiliate\_Head( module var, tab, affiliate var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

**affiliate** The record of the affiliate being edited or NULL if adding an affiliate

## Return Value

1 on success0 on error

## Module\_Affiliate\_Insert

This function performs module-specific actions when an affiliate is created. It is called after the **Affiliate** record has been inserted into the database.

#### **Syntax**

Module\_Affiliate\_Insert ( module var, affiliate var )

#### **Parameters**

module The Module record of the current module affiliate The Affiliate record that will be deleted

#### Return Value

1 on success
0 on error

Note: Error messages should be reported via the Error function.

## Module\_Affiliate\_Tabs

This function returns a list of tab codes and titles that are provided by the module. If **affiliate:id** is **0**, the system is requesting tabs for the **Add Affiliate** screen. Otherwise, tabs are being requested for the **Edit Affiliate** screen and the affiliate will contain the record being edited.

#### Syntax

Module\_Affiliate\_Tabs ( module var, affiliate var )

#### **Parameters**

**module** The **Module** record of the current module

**affiliate** The **Affiliate** record that is being edited or NULL if adding a record

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module Affiliate Update

This function performs module-specific actions when an affiliate is updated. It is called after the **Affiliate** record has been updated in the database.

#### **Syntax**

Module\_Affiliate\_Update ( module var, affiliate var )

#### Affiliate Batch Edit Screen Feature (vis\_affilbe)

#### **Parameters**

module The Module record of the current module

affiliate The Affiliate record that will be deleted

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

## Module\_Affiliate\_Validate

This function performs validation of additional tab content when an affiliate is added or updated. If the global variable **Edit\_Affiliate** is empty, the validation is being performed for an addition. Otherwise, **Edit\_Affiliate** will contain the code of the affiliate being updated.

#### **Syntax**

Module\_Affiliate\_Validate ( module var )

#### **Parameters**

**module** The **Module** record of the current module

## Return Value

1 if validation is successful

0 if validation is unsuccessful

Note: Modules can call the FieldError function to report invalid input fields.

## Affiliate Batch Edit Screen Feature (vis affilbe)

Modules that implement the **Affiliate Batch Edit Screen** feature (vis\_affilbe) are notified of actions that occur on the **Affiliate Batch Edit** screen.

The vis\_affilbe feature includes the following functions:

- Module\_Affiliate\_BatchEdit\_Content
- Module\_Affiliate\_BatchEdit\_Delete
- Module\_Affiliate\_BatchEdit\_Head

- Module\_Affiliate\_BatchEdit\_Tabs
- Module\_Affiliate\_BatchEdit\_Update
- Module\_Affiliate\_BatchEdit\_Validate

## Module\_Affiliate\_BatchEdit\_Content

This function is called to render the content of an **Affiliate Batch Edit** screen tab. When the **tab** parameter matches one of the tabs drawn by this module, it draws the controls (using HTML) meant to be visible on the tab. When the **tab** parameter does not match, the module hides any input values in HTML hidden **<input>** tags.

#### Supported API Version

5.70 and higher

#### **Syntax**

Module\_Affiliate\_BatchEdit\_Content( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module

tab The code of the currently visible tab. It can be one of the module's tabs or one of the

system generated tabs.

**load\_fields** This value is set to 1 when the page is initialized so that the module can load default

values for any input fields. On subsequent calls, the value is **0** and the module is expected

to retain the initially loaded values using hidden input fields, etc.

#### Return Value

1 on success
0 on error

## Module\_Affiliate\_BatchEdit\_Delete

This function performs module-specific actions when affiliates are deleted. This function is called for each affiliate deleted on the **Affiliate Batch Edit** screen. Multiple affiliates can be deleted at once, which will result in multiple calls to this function. This function is called prior to the **Affiliate** record being deleted from the database.

#### **Syntax**

Module\_Affiliate\_BatchEdit\_Delete ( module var, affiliate var )

## Affiliate Batch Edit Screen Feature (vis\_affilbe)

#### **Parameters**

module The Module record of the current module

affiliate The Affiliate record being deleted

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

## Module\_Affiliate\_BatchEdit\_Head

This function allows the module to output content in the HTML <head> tag of the Affiliate Batch Edit screen. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

## Syntax

Module\_Affiliate\_BatchEdit\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

#### Return Value

1 on success0 on error

## Module Affiliate BatchEdit Tabs

This function returns a string that identifies the tabs to be added to the default list of system generated tabs. The string takes the following form:

```
<code>:<Description>, <code2>:<Description2>
```

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

## Supported API Version

5.70 and higher

#### **Syntax**

Module\_Affiliate\_BatchEdit\_Tabs( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A string describing the tabs to be added (see description above)

## Module\_Affiliate\_BatchEdit\_Update

This function performs module-specific actions when an affiliate is updated. It is called when an affiliate is updated using the **Edit Here** button on the **Affiliate Batch Edit** screen, after the **Affiliate** record has been updated in the database.

#### **Syntax**

Module\_Affiliate\_BatchEdit\_Update ( module var, affiliate var )

## **Parameters**

module The Module record of the current module affiliate The Affiliate record being updated

#### Return Value

1 on success0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Affiliate\_BatchEdit\_Validate

This function performs module-specific validation. It is called to validate input when an affiliate is edited using the **Edit Here** button on the **Affiliate Batch Edit** screen.

## Syntax

Module\_Affiliate\_BatchEdit\_Validate ( module var )

Category Add/Edit Screen Feature (vis\_category)

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 if all fields pass validation

0 if any fields do not pass validation

**Note:** Validation errors can be reported via the **FieldError** function.

# Category Add/Edit Screen Feature (vis category)

Modules that implement the Category Add/Edit Screen feature (vis\_category) can add tabs to the Category Add/Edit screen and are notified when categories are created, updated, or deleted from the Category Add/Edit screen.

The vis\_category feature includes the following functions:

- Module Category Content
- Module\_Category\_Delete
- Module\_Category\_Head
- Module\_Category\_Insert
- Module\_Category\_Tabs
- Module\_Category\_Update
- Module\_Category\_Validate

## Module\_Category\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **category:id** is **0**, the system is requesting tabs for the **Add Category** screen. Otherwise, tabs are being requested for the **Edit Category** screen and category will contain the record being edited. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for the category being edited.

## Syntax

Module\_Category\_Content ( module var, tab, load\_fields, category var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

category The Category record of the category being edited or NULL if a category is being added

#### Return Value

1 on success0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Category\_Delete

This function performs module-specific actions when a category is deleted. It is called prior to the **Category** record being deleted from the database.

#### **Syntax**

#### Module\_Category\_Delete ( module var, category var )

## **Parameters**

module The Module record of the current module category The Category record that will be deleted

#### Return Value

1 on success
0 on error

Note: Error messages should be reported via the Error function.

## Module\_Category\_Head

This function allows the module to output content in the HTML <head> tag of the Add/Edit Category screen. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

Category Add/Edit Screen Feature (vis\_category)

## Syntax

Module\_Category\_Head( module var, tab, category var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

category The Category record of the category being edited or NULL if a category is being added

#### Return Value

1 on success
0 on error

## Module\_Category\_Insert

This function performs module-specific actions when a category is created. It is called after the **Category** record has been inserted into the database.

#### Syntax

Module\_Category\_Insert ( module var, category var )

#### **Parameters**

module The Module record of the current module category The newly created Category record

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Category\_Tabs

This function returns a list of tab codes and titles that are provided by the module. If **category:id** is **0**, the system is requesting tabs for the **Add Category** screen. Otherwise, tabs are being requested for the **Edit Category** screen and **category** will contain the record being edited.

#### Syntax

Module\_Category\_Tabs ( module var, category var )

#### **Parameters**

module The Module record of the current module

**category** The **Category** record that is being edited or NULL if adding a record

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module\_Category\_Update

This function performs module-specific actions when a category is updated. It is called after the **Category** record has been updated in the database.

#### **Syntax**

Module\_Category\_Update ( module var, category var )

#### **Parameters**

module The Module record of the current module

category The updated Category record

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

## Module\_Category\_Validate

This function performs validation of additional tab content when a category is added or updated. If the global variable **Edit\_Category** is empty, the validation is performed for an addition. Otherwise, **Edit\_Category** contains the code of the category being updated.

#### **Syntax**

Module\_Category\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

**0** if validation is not successful

Category Batch Edit Screen Feature (vis\_categorybe)

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Category Batch Edit Screen Feature (vis categorybe)

Modules that implement the Category Batch Edit Screen feature (vis\_categorybe) are notified of actions that occur on the Category Batch Edit screen.

The vis categorybe feature includes the following functions:

- Module\_Category\_BatchEdit\_Content
- Module Category BatchEdit Delete
- Module\_Category\_BatchEdit\_Head
- Module\_Category\_BatchEdit\_Tabs
- Module\_Category\_BatchEdit\_Update
- Module\_Category\_BatchEdit\_Validate

## Module\_Category\_BatchEdit\_Content

This function is called to render the content of a **Category Batch Edit** screen tab. When the **tab** parameter matches one of the tabs drawn by this module, it draws the controls (using HTML) meant to be visible on the tab. When the **tab** parameter does not match, the module hides any input values in HTML hidden **<input>** tags.

#### Supported API Version

5.70 and higher

#### Syntax

## Module\_Category\_BatchEdit\_Content( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module

tab The code of the currently visible tab. It can be one of the module's tabs or one of the

system generated tabs.

**load\_fields** This value is set to **1** when the page is initialized so that the module can load default

values for any input fields. On subsequent calls, the value is 0 and the module is expected

to retain the initially loaded values using hidden input fields, etc.

#### Return Value

1 on success

0 on error

## Module\_Category\_BatchEdit\_Delete

This function performs module-specific actions when categories are deleted. It is called for each category deleted on the **Category Batch Edit** screen. Multiple categories may be deleted at once, which will result in multiple calls to this function. This function is called prior to the **Category** record being deleted from the database.

#### **Syntax**

Module\_Category\_BatchEdit\_Delete ( module var, category var )

#### **Parameters**

module The Module record of the current module category The Category record being deleted

#### Return Value

1 on success
0 on error

Note: Error messages should be reported via the Error function.

## Module\_Category\_BatchEdit\_Head

This function allows the module to output content in the HTML <head> tag of the Category Batch Edit screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

## **Syntax**

Module\_Category\_BatchEdit\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

Category Batch Edit Screen Feature (vis\_categorybe)

#### Return Value

1 on success

0 on error

## Module\_Category\_BatchEdit\_Tabs

This function returns a string that identifies the tabs to be added to the default list of system generated tabs. The string takes the following form:

```
<code>:<Description>, <code2>:<Description2>
```

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

#### Supported API Version

5.70 and higher

## Syntax

Module\_Category\_BatchEdit\_Tabs( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

A string describing the tabs to be added (see description above)

## Module\_Category\_BatchEdit\_Update

This function performs module-specific actions when a category is updated. It is called when a category is updated using the **Edit Here** button on the **Category Batch Edit** screen. This function is called after the **Category** record has been updated in the database.

#### Syntax

Module\_Category\_BatchEdit\_Update ( module var, category var )

#### **Parameters**

module The Module record of the current module category The Category record being updated

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

## Module Category BatchEdit Validate

This function performs module-specific validation. It is called to validate input when a category is edited using the **Edit Here** button on the **Category Batch Edit** screen.

### **Syntax**

Module\_Category\_BatchEdit\_Validate ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 if all fields pass validation

0 if any fields do not pass validation

**Note:** Validation errors can be reported via the FieldError function.

# Customer Add/Edit Screen Feature (vis cust)

Modules that implement the **Customer Add/Edit Screen** feature (vis\_cust) can add tabs to the Administrative Interface **Customer Add/Edit** screen and are notified when customers are created, updated, or deleted from the **Customer Add/Edit** screen.

- Module\_Customer\_Content
- Module\_Customer\_Delete
- Module\_Customer\_Head
- Module\_Customer\_Insert
- Module\_Customer\_Tabs
- Module\_Customer\_Update
- Module\_Customer\_Validate

Customer Add/Edit Screen Feature (vis\_cust)

## **Module\_Customer\_Content**

This function renders content for visible tabs or hides state information for invisible tabs. If **customer**:id is **0**, the system is requesting tabs for the **Add Customer** screen. Otherwise, tabs are being requested for the **Edit Customer** screen and **customer** will contain the record being edited. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field that normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for the customer being edited.

#### **Syntax**

Module\_Customer\_Content ( module var, tab, load\_fields, customer var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

**customer** The **Customer** record of the category being edited or NULL if a category is being added

#### Return Value

1 on success
0 on error

Note: Error messages should be reported via the Error function.

## Module\_Customer\_Delete

This function performs module-specific actions when a customer is deleted from the Administrative Interface. It is called prior to the **Customer** record being deleted from the database.

#### Syntax

Module\_Customer\_Delete ( module var, customer var )

#### **Parameters**

module The Module record of the current module category The Customer record that will be deleted

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

## Module\_Customer\_Head

This function allows the module to output content in the HTML <head> tag of the Add/Edit Customer screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

#### **Syntax**

Module\_Customer\_Head( module var, tab, customer var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

**customer** The **Customer** record of the customer being edited or NULL if a customer is being added

#### Return Value

1 on success0 on error

## Module\_Customer\_Insert

This function performs module-specific actions when a customer is created in the Administrative Interface. It is called after the **Customer** record has been inserted into the database.

#### Syntax

Module\_Customer\_Insert ( module var, customer var )

## **Parameters**

module The Module record of the current module customer The newly created Customer record

Customer Add/Edit Screen Feature (vis\_cust)

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

## Module\_Customer\_Tabs

This function returns a list of tab codes and titles that are provided by the module. If **customer:id** is **0**, the system is requesting tabs for the **Add Customer** screen. Otherwise, tabs are being requested for the **Edit Customer** screen and **customer** will contain the record being edited.

#### Syntax

Module\_Customer\_Tabs ( module var, customer var )

#### **Parameters**

module The Module record of the current module

**category** The **Category** record that is being edited or NULL if adding a record

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module\_Customer\_Update

This function performs module-specific actions when a customer is updated in the Administrative Interface. It is called after the **Customer** record has been updated in the database.

## Syntax

Module\_Customer\_Update ( module var, customer var )

#### **Parameters**

module The Module record of the current module

**customer** The updated **Customer** record

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

## Module\_Customer\_Validate

This function performs validation of additional tab content when a customer is added or updated from the Administrative Interface. If the global variable **Edit\_Customer** is empty, the validation is being performed for an addition. Otherwise, **Edit\_Customer** will contain the code of the customer being updated.

#### **Syntax**

Module\_Customer\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

- 1 if validation is successful
- 0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Customer Batch Edit Screen Feature (vis\_custbe)

Modules that implement the Customer Batch Edit Screen feature (vis\_custbe) are notified of actions that occur on the Customer Batch Edit screen.

The vis\_custbe feature includes the following functions:

- Module\_Customer\_BatchEdit\_Content
- Module\_Customer\_BatchEdit\_Delete
- Module\_Customer\_BatchEdit\_Head
- Module\_Customer\_BatchEdit\_Tabs
- Module\_Customer\_BatchEdit\_Update
- Module\_Customer\_BatchEdit\_Validate

## Module\_Customer\_BatchEdit\_Content

This function is called to render the content of a **Customer Batch Edit** screen tab. When the **tab** parameter matches one of the tabs drawn by this module, it draws the controls (using HTML) meant to be visible on the tab. When the **tab** parameter does not match, the module hides any input values in HTML hidden **<input>** tags.

Customer Batch Edit Screen Feature (vis\_custbe)

## Supported API Version

5.70 and higher

#### Syntax

## Module\_Customer\_BatchEdit\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module

tab The code of the currently visible tab. It can be one of the module's tabs or one of the

system generated tabs.

**load\_fields** This value is set to **1** when the page is initialized so that the module can load default

values for any input fields. On subsequent calls, the value is 0 and the module is expected

to retain the initially loaded values using hidden input fields, etc.

#### Return Value

1 on success

0 on error

## Module\_Customer\_BatchEdit\_Delete

This function performs module-specific actions when customers are deleted. It is called for each customer deleted on the **Customer Batch Edit** screen. Multiple customers may be deleted at once, which will result in multiple calls to this function. This function is called prior to the **Customer** record being deleted from the database.

#### **Syntax**

#### Module\_Customer\_BatchEdit\_Delete ( module var, customer var )

#### **Parameters**

module The Module record of the current module customer

The Customer record being deleted

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Customer\_BatchEdit\_Head

This function allows the module to output content in the HTML <head> tag of the Customer Batch Edit screen. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

## **Syntax**

Module\_Customer\_BatchEdit\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success0 on error

## Module\_Customer\_BatchEdit\_Tabs

This function returns a string that identifies the tabs to be added to the default list of system generated tabs. The string takes the following form:

```
<code>:<Description>, <code2>:<Description2>
```

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

## Supported API Version

5.70 and higher

#### Syntax

Module\_Customer\_BatchEdit\_Tabs( module var )

#### **Parameters**

module The Module record of the current module

## Return Value

A string describing the tabs to be added (see description above)

Customer Batch Edit Screen Feature (vis\_custbe)

## Module\_Customer\_BatchEdit\_Update

This function performs module-specific actions when a customer is updated. It is called when a customer is updated using the **Edit Here** button on the **Customer Batch Edit** screen. This function is called after the **Customer** record has been updated in the database.

#### **Syntax**

Module\_Customer\_BatchEdit\_Update ( module var, customer var )

#### **Parameters**

module The Module record of the current module customer
The Customer record being updated

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Customer\_BatchEdit\_Validate

This function performs module-specific validation. It is called to validate input when a customer is edited using the **Edit Here** button on the **Customer Batch Edit** screen.

#### Syntax

Module\_Customer\_BatchEdit\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if all fields pass validation

0 if any fields do not pass validation

**Note:** Validation errors can be reported via the **FieldError** function.

## Domain Settings Screen Feature (vis\_domain)

This feature allows modules to add tabs to the **Domain Settings** screen.

The vis\_domain feature includes the following functions:

- Module\_Domain\_Content
- Module\_Domain\_Head
- Module\_Domain\_Tabs
- Module\_Domain\_Update
- Module\_Domain\_Validate

## Module\_Domain\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render required HTML content for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML <input> fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### Syntax

#### Module\_Domain\_Content( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state;

**0** if the module should expect the state to be present.

#### Return Value

1 on success0 on error

## Module\_Domain\_Head

This function allows the module to output content in the HTML <head> tag of the **Domain Settings** screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

Domain Settings Screen Feature (vis\_domain)

#### Syntax

Module\_Domain\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab

#### Return Value

1 on success0 on error

## Module\_Domain\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### Syntax

Module\_Domain\_Tabs( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A tab list describing the tabs provided by this module.

## Module\_Domain\_Update

This function saves module-specific settings when the Update button is pressed.

#### **Syntax**

Module\_Domain\_Update( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Domain\_Validate

This function performs validation of module tab content.

#### Syntax

Module\_Domain\_Validate( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

- 1 if validation is successful
- 0 if validation is not successful

# Order Fulfillment Settings Screen Feature (vis\_fulfill)

Modules that implement the **Order Fulfillment Settings Screen** feature (vis\_fulfill) provide one or more tabs on the **Order Fulfillment Settings** screen.

The vis\_fulfill feature includes the following functions:

- Module\_Fulfillment\_Content
- Module Fulfillment Head
- Module\_Fulfillment\_Tabs
- Module\_Fulfillment\_Update
- Module Fulfillment Validate

## Module\_Fulfillment\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinputs** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### **Syntax**

Module\_Fulfillment\_Content ( module var, tab, load\_fields )

## Order Fulfillment Settings Screen Feature (vis\_fulfill)

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Fulfillment\_Head

This function allows the module to output content in the HTML <head> tag of the Order Fulfillment Settings screen. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

## Syntax

#### Module\_Fulfillment\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

## Return Value

1 on success
0 on error

## Module\_Fulfillment\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### Syntax

#### Module\_Fulfillment\_Tabs ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module\_Fulfillment\_Update

This function saves module-specific settings when the Update button is pressed.

## **Syntax**

Module\_Fulfillment\_Update ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Fulfillment\_Validate

This function performs validation of module tab content.

## **Syntax**

Module\_Fulfillment\_Validate ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 if validation is successful

0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Logging Settings Screen Feature (vis\_log)

Modules that implement the **Logging Settings Screen** feature (vis\_log) provide one or more tabs on the **Logging Settings** screen.

The vis\_log feature includes the following functions:

- Module\_Logging\_Content
- Module\_Logging\_Head
- Module\_Logging\_Tabs
- Module\_Logging\_Update
- Module\_Logging\_Validate

## Module\_Logging\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinputs** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### Syntax

#### Module\_Logging\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Logging\_Head

This function allows the module to output content in the HTML <head> tag of the Logging Settings screen. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

## **Syntax**

Module\_Logging\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success0 on error

## Module\_Logging\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### **Syntax**

```
Module_Logging_Tabs ( module var )
```

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module\_Logging\_Update

This function saves module-specific settings when the Update button is pressed.

#### **Syntax**

Module\_Logging\_Update ( module var )

#### **Parameters**

module The Module record of the current module

Order Tabs Feature (vis\_order)

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Logging\_Validate

This function performs validation of module tab content.

#### Syntax

Module\_Logging\_Validate ( module var )

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

1 if validation is successful

0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# *Order Tabs Feature (vis\_order)*

Modules that implement the **Order Tabs** feature (**vis\_order**) provide one or more tabs which are visible in both the legacy order processing and order detail screens.

The vis\_order feature includes the following functions:

- Module\_Order\_Content
- Module\_Order\_Delete (deprecated)
- Module\_Order\_Delete\_Order
- Module\_Order\_Head
- Module\_Order\_Tabs
- Module\_Order\_Update
- Module\_Order\_Validate

## Module\_Order\_Content

This function renders content for visible tabs or hides state information for invisible tabs. The global variable **Edit\_Order** will contain the ID of the order being edited. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for the order being edited.

#### **Syntax**

Module\_Order\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module
 tab The code of the currently visible tab
 load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

#### Module\_Order\_Delete

This function is called prior to the **Order** record being deleted from the database. It is called when an order is deleted from the **Order Detail** screen, the legacy **View Order** screen, the legacy **Order Batch Edit** screen or when a batch of orders is deleted from the legacy **Batch** screen. To determine which order is being deleted will require determining which location is calling the function and then examining the internal state of the Administrative Interface.

**Note:** Because the order being deleted is not passed to the module as a parameter, the order must be inferred by examining global variables. Refer to *Appendix D: Deleting Orders* on page 311 for further details.

**Note:** This function has been deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. New modules should also implement **Module\_Order\_Delete\_Order**.

Order Tabs Feature (vis\_order)

#### Supported API Version

Supported in versions less than 5.51 and greater than or equal to 5.02

## **Syntax**

Module\_Order\_Delete ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Order\_Delete\_Order

This function performs module-specific actions when an **Order** record is deleted from the database. It is called when an order is deleted from the **Order Detail** screen, the legacy **View Order** screen, the legacy **Order Batch Edit** screen or when a batch of orders is deleted from the legacy **Batch** screen.

## Supported API Version

Supported in versions greater than or equal to 5.51

## Syntax

Module\_Order\_Delete\_Order ( module var, order var )

#### **Parameters**

module The Module record of the current module order

The Order record that will be deleted

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Order\_Head

This function allows the module to output content in the HTML <head> tag of the Legacy Order Processing Edit Order screen and new Order Management tab screens. It is useful for outputting CSS styles or external JavaScript references.

## Supported API Version

5.70 and higher

#### Syntax

Module\_Order\_Head( module var, tab, order var )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

order The Order record of the order being displayed

#### Return Value

1 on success
0 on error

## Module\_Order\_Tabs

This function returns a list of tab codes and titles that are provided by the module. The global variable **Edit\_Order** contains the ID of the order being edited.

#### **Syntax**

Module\_Order\_Tabs ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

## Module\_Order\_Update

This function performs module-specific actions when an order is updated. It is called prior to the **Order** record being updated in the database. The ID of the order being updated is present in the global variable **Edit\_Order**.

Packaging Rules Screen Feature (vis\_pkgrules)

## Syntax

Module\_Order\_Update ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

**0** on error

**Note:** Error messages should be reported via the **Error** function.

## Module\_Order\_Validate

This function performs validation of additional tab content when an order is updated. The ID of the order being updated is present in the global variable **Edit\_Order**.

#### Syntax

Module\_Order\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

**0** if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Packaging Rules Screen Feature (vis pkgrules)

This feature allow modules to add tabs to the **Packaging Rules** screen.

The vis\_pkgrules feature includes the following functions:

- Module\_PackagingRules\_Content
- Module\_PackagingRules\_Head
- Module\_PackagingRules\_Tabs

- Module\_PackagingRules\_Update
- Module\_PackagingRules\_Validate

## Module\_PackagingRules\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render HTML content required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML <input> fields to maintain information required when **tab** is not visible.

#### **Syntax**

## Module\_PackagingRules\_Content( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module
 tab The code of the currently visible tab
 load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

## Module\_PackagingRules\_Head

This function allows the module to output content in the HTML <head> tag of the Packaging Rules screen. It is useful for outputting CSS styles or external JavaScript references.

#### **Syntax**

#### Module\_PackagingRules\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success
0 on error

Packaging Rules Screen Feature (vis\_pkgrules)

## Module\_PackagingRules\_Tabs

This function returns a list of tab codes and titles that are provided by the module. These tabs will be added to the **Packaging Rules** screen.

#### **Syntax**

Module\_PackingRules\_Tabs ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

A tab list describing the tabs provided by this module.

## Module\_PackagingRules\_Update

This function performs module-specific actions when package rules are updated.

## Syntax

Module\_PackagingRules\_Update ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

## Module\_PackagingRules\_Validate

This function performs validation of tab content when a package rule is updated.

#### Syntax

Module\_PackagingRules\_Validate ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

- 1 if validation is successful
- 0 if validation is not successful

# Payment Settings Screen Feature (vis\_payment)

Modules that implement this feature provide one or more tabs on the **Payment Settings** screen.

The vis\_payment feature includes the following functions:

- Module\_Payment\_Content
- Module\_Payment\_Head
- Module\_Payment\_Tabs
- Module\_Payment\_Update
- Module\_Payment\_Validate

# Module\_Payment\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinput** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### Syntax

# Module\_Payment\_Content ( module var, tab, load\_fields )

# **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

Payment Settings Screen Feature (vis\_payment)

# Module\_Payment\_Head

This function allows the module to output content in the HTML <head> tag of the Payment Settings screen. It is useful for outputting CSS styles or external JavaScript references.

# Supported API Version

5.70 and higher

#### **Syntax**

Module\_Payment\_Head( module var, tab )

# **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success0 on error

# Module\_Payment\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### **Syntax**

Module\_Payment\_Tabs ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

# Module\_Payment\_Update

This function saves module-specific settings when the Update button is pressed.

#### **Syntax**

Module\_Payment\_Update ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Payment\_Validate

This function performs validation of module tab content.

#### **Syntax**

Module\_Payment\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

**0** if validation is not successful

Note: Modules can call the FieldError function to report invalid input fields.

# Product Add/Edit Screen Feature (vis\_product)

Modules that implement this feature can add tabs to the **Product Add/Edit** screen and are notified when products are created, updated, or deleted from the **Product Add/Edit** screen.

The vis\_product feature includes the following functions:

- Module\_Product\_Content
- Module\_Product\_Delete
- Module\_Product\_Head
- Module\_Product\_Insert
- Module\_Product\_Tabs
- Module\_Product\_Update

Module\_Product\_Validate

# Module\_Product\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **product:id** is **0**, the system is requesting tabs for the **Add Product** screen. Otherwise, tabs are being requested for the **Edit Product** screen and **product** will contain the record being edited. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for the product being edited.

#### Syntax

Module\_Product\_Content ( module var, tab, load\_fields, product var )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

**product** The **Product** record that is being edited or NULL if adding a record

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

# Module\_Product\_Delete

This function performs module-specific actions when a product is deleted. It is called prior to the **Product** record being deleted from the database.

#### Syntax

Module\_Product\_Delete ( module var, product var )

#### **Parameters**

module The Module record of the current module product The Product record that will be deleted

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

# Module\_Product\_Head

This function allows the module to output content in the HTML <head> tag of the Add/Edit Product screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

#### **Syntax**

Module\_Product\_Head( module var, tab, product var )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

product The Product record of the product being edited or NULL if a product is being added

#### Return Value

1 on success0 on error

# Module\_Product\_Insert

This function performs module-specific actions when a product is created. It is called after the **Product** record has been inserted into the database.

#### Syntax

Module\_Product\_Insert ( module var, product var )

#### **Parameters**

module The Module record of the current module product The newly created Product record

# Product Add/Edit Screen Feature (vis\_product)

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Product\_Tabs

Returns a list of tab codes and titles that are provided by the module. If **product:id** is **0**, the system is requesting tabs for the **Add Product** screen. Otherwise, tabs are being requested for the **Edit Product** screen and **product** will contain the record being edited.

# Syntax

Module\_Product\_Tabs ( module var, product var )

#### **Parameters**

module The Module record of the current module

product The Product record of the product being edited or NULL if a product is being added

#### Return Value

An AdminTabList describing the tabs provided by this module

# Module\_Product\_Update

This function performs module-specific actions when a product is updated. It is called after the **Product** record has been updated in the database.

# Syntax

#### Module\_Product\_Update ( module var, product var )

#### **Parameters**

module The Module record of the current module

**product** The updated **Product** record

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

# Module\_Product\_Validate

This function performs validation of additional tab content when a product is added or updated. If the global variable **Edit\_Product** is empty, the validation is being performed for an addition. Otherwise, **Edit\_Product** will contain the code of the product being updated.

#### **Syntax**

Module\_Product\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

- 1 if validation is successful
- 0 if validation is not successful

Note: Modules can call the FieldError function to report invalid input fields.

# Product Batch Edit Screen Feature (vis\_productbe)

Modules that implement the **Product Batch Edit Screen** feature (vis\_productbe) are notified of actions that occur on the **Product Batch Edit** screen.

The vis\_productbe feature includes the following functions:

- Module\_Product\_BatchEdit\_Content
- Module\_Product\_BatchEdit\_Delete
- Module\_Product\_BatchEdit\_Head
- Module\_Product\_BatchEdit\_Tabs
- Module\_Product\_BatchEdit\_Update
- Module\_Product\_BatchEdit\_Validate

# Module\_Product\_BatchEdit\_Content

This function is called to render the content of a **Product Batch Edit** screen tab. When the **tab** parameter matches one of the tabs drawn by this module, it draws the controls (using HTML) meant to be visible on the tab. When the **tab** parameter does not match, the module hides any input values in HTML hidden **<input>** tags.

# Product Batch Edit Screen Feature (vis\_productbe)

#### Supported API Version

5.70 and higher

#### **Syntax**

#### Module\_Product\_BatchEdit\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module

tab The code of the currently visible tab. It can be one of the module's tabs or one of the

system generated tabs.

**load\_fields** This value is set to **1** when the page is initialized so that the module can load default

values for any input fields. On subsequent calls, the value is 0 and the module is expected

to retain the initially loaded values using hidden input fields, etc.

#### Return Value

1 on success

0 on error

# Module\_Product\_BatchEdit\_Delete

This function performs module-specific actions when products are deleted. This function is called for each product deleted on the **Product Batch Edit** screen. Multiple products may be deleted at once, which will result in multiple calls to this function. This function is called prior to the **Product** record being deleted from the database.

#### **Syntax**

#### Module\_Product\_BatchEdit\_Delete ( module var, product var )

#### **Parameters**

module The Module record of the current module

product The Product record being deleted

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Product\_BatchEdit\_Head

This function allows the module to output content in the HTML <head> tag of the **Product Batch Edit** screen. It is useful for outputting CSS styles or external JavaScript references.

#### Supported API Version

5.70 and higher

#### Syntax

Module\_Product\_BatchEdit\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success0 on error

# Module\_Product\_BatchEdit\_Tabs

This function returns a string that identifies the tabs to be added to the default list of system generated tabs. The string takes the following form:

```
<code>:<Description>, <code2>:<Description2>
```

The module may specify as many <code>:<Description> pairs as it likes by separating them with commas. A new tab will be drawn for each pair. If the module returns an empty string, no additional tabs are drawn.

# Supported API Version

5.70 and higher

#### Syntax

Module\_Product\_BatchEdit\_Tabs( module var )

#### **Parameters**

module The Module record of the current module

# Return Value

A string describing the tabs to be added (see description above)

Product Batch Edit Screen Feature (vis\_productbe)

# Module\_Product\_BatchEdit\_Update

This function performs module-specific actions when a product is updated. It is called when a product is updated using the **Edit Here** button on the **Product Batch Edit** screen. This function is called after the **Product** record has been updated in the database.

#### **Syntax**

Module\_Product\_BatchEdit\_Update ( module var, product var )

#### **Parameters**

module The Module record of the current module product The Product record being updated

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Product\_BatchEdit\_Validate

This function performs module-specific validation. It is called to validate input when a product is edited using the **Edit Here** button on the **Product Batch Edit** screen.

#### Syntax

Module\_Product\_BatchEdit\_Validate ( module var )

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

1 if all fields pass validation

0 if any fields do not pass validation

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Shipping Settings Screen Feature (vis\_shipping)

Modules that implement the **Shipping Settings Screen** feature (vis\_shipping) provide one or more tabs on the **Shipping Settings** screen.

The vis\_shipping feature includes the following functions:

- Module\_Shipping\_Content
- Module\_Shipping\_Head
- Module\_Shipping\_Tabs
- Module\_Shipping\_Update
- Module Shipping Validate

# Module\_Shipping\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinputs** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### Syntax

#### Module\_Shipping\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module
tab The code of the currently visible tab
load fields 1 if the module should initialize its state.

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Shipping\_Head

This function allows the module to output content in the HTML <head> tag of the Shipping Settings screen. It is useful for outputting CSS styles or external JavaScript references.

# Shipping Settings Screen Feature (vis\_shipping)

# Supported API Version

5.70 and higher

# **Syntax**

Module\_Shipping\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success0 on error

# Module\_Shipping\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### Syntax

Module\_Shipping\_Tabs ( module var )

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

# Module\_Shipping\_Update

This function saves module-specific settings when the Update button is pressed.

#### **Syntax**

Module\_Shipping\_Update ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

# Module Shipping Validate

This function performs validation of module tab content.

#### Syntax

Module\_Shipping\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Edit Store Screen Feature (vis store)

Modules that implement the **Edit Store Screen** feature (vis\_store) may add tabs to the **Edit Store** screen, and are notified when the store settings are updated.

The vis\_store feature includes the following functions:

- Module\_Store\_Content
- Module\_Store\_Head
- Module\_Store\_Tabs
- Module\_Store\_Update
- Module\_Store\_Validate

# **Module Store Content**

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required

# Edit Store Screen Feature (vis\_store)

for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **<input>** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### Syntax

#### Module\_Store\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

# Module\_Store\_Head

This function allows the module to output content in the HTML <head> tag of the Edit Store screen. It is useful for outputting CSS styles or external JavaScript references.

# Supported API Version

5.70 and higher

#### Syntax

#### Module\_Store\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success
0 on error

# Module\_Store\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### Syntax

```
Module_Store_Tabs ( module var )
```

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

# Module\_Store\_Update

This function saves module-specific settings when the **Update** button is pressed.

#### **Syntax**

```
Module_Store_Update ( module var )
```

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

# Module\_Store\_Validate

This function performs validation of module tab content.

#### **Syntax**

Module\_Store\_Validate ( module var )

#### **Parameters**

module

The Module record of the current module

#### System Extension Settings Screen Feature (vis\_system)

#### Return Value

1 if validation is successful

0 if validation is not successful

Note: Modules can call the FieldError function to report invalid input fields.

# System Extension Settings Screen Feature (vis system)

Modules that implement the **System Extension Settings Screen** feature (**vis\_system**) provide one or more tabs on the **System Extension Settings** screen.

The vis\_system feature includes the following functions:

- Module\_System\_Content
- Module\_System\_Head
- Module\_System\_Tabs
- Module\_System\_Update
- Module\_System\_Validate

# Module\_System\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinputs** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### **Syntax**

#### Module\_System\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

0 if the module should expect the state to be present

#### Return Value

1 on success

0 on error

Note: Error messages should be reported via the Error function.

# Module\_System\_Head

This function allows the module to output content in the HTML <head> tag of the System Extension Settings screen. It is useful for outputting CSS styles or external JavaScript references.

# Supported API Version

5.70 and higher

#### **Syntax**

Module\_System\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success

0 on error

# Module\_System\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### **Syntax**

Module\_System\_Tabs ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

Utility Screen Feature (vis\_util)

# Module\_System\_Update

This function saves module-specific settings when the **Update** button is pressed.

#### Syntax

Module\_System\_Update ( module var )

#### **Parameters**

module

The Module record of the current module

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_System\_Validate

This function performs validation of module tab content.

#### Syntax

Module\_System\_Validate ( module var )

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

1 if validation is successful

**0** if validation is not successful

Note: Modules can call the FieldError function to report invalid input fields.

# Utility Screen Feature (vis\_util)

Modules that implement the **Utility Screen** feature (**vis\_util**) provide one or more tabs on the Utility screen.

The vis\_util feature includes the following functions:

- Module\_Utility\_Content
- Module\_Utility\_Head
- Module\_Utility\_Tabs
- Module\_Utility\_Update
- Module\_Utility\_Validate

# Module\_Utility\_Content

This function renders content for visible tabs or hides state information for invisible tabs. If **tab** is the code of one of the module's tabs, the module should render whatever HTML content is required for that specific tab. For all other tabs (or for all tabs if **tab** is not one of the module's tabs), the module should use hidden HTML **sinput** fields to maintain whatever state information is required when a tab is not visible. Typically, this would involve creating hidden input fields for each HTML form field which normally appears on an invisible tab. If **load\_fields** is true, the module should initialize all fields to a default value or current values for fields provided on all tabs.

#### **Syntax**

#### Module\_Utility\_Content ( module var, tab, load\_fields )

#### **Parameters**

module The Module record of the current module tab The code of the currently visible tab load\_fields 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success
0 on error

Note: Error messages should be reported via the Error function.

# **Module Utility Head**

This function allows the module to output content in the HTML <head> tag of the Store Utility Settings screen. It is useful for outputting CSS styles or external JavaScript references.

# Supported API Version

5.70 and higher

Utility Screen Feature (vis\_util)

#### **Syntax**

Module\_Utility\_Head( module var, tab )

#### **Parameters**

module The Module record of the current module

tab The currently visible tab code

#### Return Value

1 on success

0 on error

# Module\_Utility\_Tabs

This function returns a list of tab codes and titles that are provided by the module.

#### Syntax

Module\_Utility\_Tabs ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

An AdminTabList describing the tabs provided by this module

# Module\_Utility\_Update

This function saves module-specific settings when the Update button is pressed.

#### **Syntax**

# Module\_Utility\_Update ( module var )

#### **Parameters**

**module** The **Module** record of the current module

#### Return Value

1 on success

0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Utility\_Validate

This function performs validation of module tab content.

# Syntax

Module\_Utility\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

- 1 if validation is successful
- 0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Wizard Configuration Feature (vis\_wizard)

Modules that implement the **Wizard Configuration** feature (**vis\_wizard**) and one of the following additional features may be configured using a Miva Merchant-provided wizard:

- payment (through the Set Up Payment wizard)
- shipping (through the Set Up Shipping wizard)
- tax (thought the Set Up Sales Tax wizard)
- storeui (through the Design Your Look wizard)
- fulfill (through the Set Up Fulfillment wizard)

The vis\_wizard feature includes the following functions:

- Module\_ls\_Wizardable
- Module\_Wizard\_Action
- Module\_Wizard\_Content
- Module\_Wizard\_Summary\_Field
- Module\_Wizard\_Summary\_Fields
- Module\_Wizard\_Summary\_Prompt
- Module\_Wizard\_Validate
- Module\_Wizard\_Validate\_Step

Wizard Configuration Feature (vis\_wizard)

# Module\_Is\_Wizardable

This function is called when the payment, shipping, or sales tax wizard is launched. It determines which modules of the corresponding feature types to include in the module selection drop-down lists

# **Syntax**

Module\_Is\_Wizardable ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if the module is wizardable

**0** if the module is not wizardable

# Module\_Wizard\_Action

Admin calls this function after the user completes all of a module's wizard steps and after a successful return from **Module\_Wizard\_Validate**. Instructions can be placed here regarding what to do with or in response to the input submitted by the user.

#### **Syntax**

Module\_Wizard\_Action ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success

0 on error

# Module\_Wizard\_Content

Admin calls this function each time it displays a new step for a module's wizard.

#### Syntax

Module\_Wizard\_Content ( module var, step, load\_fields )

#### **Parameters**

module The Module record of the current module

**step I.step** is a numerical value representing the user's current position within the wizard

**load\_fields** 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success0 on error

**Note:** Error messages should be reported via the **Error** function.

# Module\_Wizard\_Summary\_Field

This function renders the value of the field identified by the **field\_id** parameter received from the list set in **Module\_Wizard\_Summary\_Fields**. For example, it can be used to fill in a table listing each of the tax rates entered by the administrator during use of the wizard.

#### **Syntax**

# Module\_Wizard\_Summary\_Field ( module var, field\_id )

#### **Parameters**

module The Module record of the current module

**field\_id** String identifier for the field that is to be added to the summary

#### Return Value

1 on success
0 on error

# Module\_Wizard\_Summary\_Fields

Wizard modules make use of this function along with Module\_Wizard\_Summary\_Prompt and Module\_Wizard\_Summary\_Field to create a table displaying the inputs provided by the administrator over the course of using the wizard.

#### **Syntax**

#### Module\_Wizard\_Summary\_Fields ( module var )

#### **Parameters**

module The Module record of the current module

# Wizard Configuration Feature (vis\_wizard)

#### Return Value

A comma separated list of field identifiers of the form:

id[,id,id,id-]

# Module\_Wizard\_Summary\_Prompt

This function returns a text string for use as a field label or table heading. The value of the prompt is dependent upon the **field\_id** parameter, received from the list set in **Module\_Wizard\_Summary\_Fields**.

#### Syntax

Module\_Wizard\_Summary\_Prompt ( module var, field\_id )

#### **Parameters**

module The Module record of the current module

**field\_id** String identifier for the field that is to be added to the summary

#### Return Value

The prompt for the corresponding field ID as a string with a trailing colon character

# Module\_Wizard\_Validate

Admin calls this function after the user completes all of the module's wizard steps. Instructions should be included in the function to insure that the information the user submits is in an acceptable format.

#### Syntax

Module\_Wizard\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

**0** if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# Module\_Wizard\_Validate\_Step

This function is called after each step of a module's wizard is submitted. It provides a way to validate the data from each step as the user proceeds through the wizard instead of validating all of the steps at once at the end.

#### **Syntax**

Module\_Wizard\_Validate\_Step ( module var, step )

#### **Parameters**

module The Module record of the current module

**step** I.step is a numerical value representing the user's current position within the wizard

#### Return Value

1 on success
0 on error

# Domain Wizards Feature (wizard)

Modules that implement the **Domain Wizards** feature (wizard) provide top-level wizard functionality for a Miva Merchant installation.

The wizard feature includes the following functions:

- WizardModule\_Action
- WizardModule\_Content
- WizardModule\_Icon
- WizardModule\_Logo
- WizardModule\_Privileges
- WizardModule\_Title
- WizardModule\_Validate
- WizardModule\_Validate\_Step

# WizardModule Action

Admin calls this function after the user completes all steps and after a successful return from **WizardModule\_Privileges** and **WizardModule\_Validate**. Intructions can be placed here regarding what to do with or in reaction to the input submitted by the user.

# Domain Wizards Feature (wizard)

#### **Syntax**

WizardModule\_Action ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 on success0 on error

# WizardModule\_Content

Admin calls this function each time it displays a new screen. It provides the instructions for the main portion of the wizard screen.

#### Syntax

WizardModule\_Content ( module var, step, load\_fields )

#### **Parameters**

**module** The **Module** record of the current module

**step l.step** is a numerical value representing the user's current position within the wizard

**load\_fields** 1 if the module should initialize its state,

**0** if the module should expect the state to be present

#### Return Value

1 on success0 on error

Note: Error messages should be reported via the Error function.

# WizardModule\_Icon

This function is used to define the path and name of the icon graphic that is displayed on the **admin.mv** front page under the Domain section.

#### Syntax

WizardModule\_Icon ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

A string showing the path to the icon image

# WizardModule\_Logo

This function is used to define the path and name of the icon graphic that displays in the upper left corner of the wizard. Admin calls this function each time it displays a new screen.

# **Syntax**

```
WizardModule_Logo ( module var )
```

#### **Parameters**

module

The **Module** record of the current module

#### Return Value

A string showing the path to the logo image

# WizardModule\_Privileges

Admin calls this function when it builds its left menu.

#### Syntax

WizardModule\_Privileges ( module var )

# **Parameters**

module

The **Module** record of the current module

#### Return Value

- 1 if the current user is an administrator
- **0** if the current user is not an administrator

# WizardModule\_Title

Admin calls this function each time it displays a new screen.

#### **Syntax**

WizardModule\_Title ( module var, step )

#### Domain Wizards Feature (wizard)

#### **Parameters**

module The Module record of the current module

**step I.step** is a numerical value representing the user's current position within the wizard

#### Return Value

A string showing the title of the wizard

# WizardModule\_Validate

Admin calls this function after the user completes all steps. Instructions should be included in the function to determine that any information the administrator submits is acceptable in format.

#### Syntax

WizardModule\_Validate ( module var )

#### **Parameters**

module The Module record of the current module

#### Return Value

1 if validation is successful

0 if validation is not successful

**Note:** Modules can call the **FieldError** function to report invalid input fields.

# WizardModule\_Validate\_Step

Admin calls this function each time it receives input from the submission of a wizard screen (one screen per step). Instructions should be included in the function to determine that any information the administrator submits is acceptable in format.

#### Syntax

WizardModule\_Validate\_Step ( module var, step )

#### **Parameters**

**module** The **Module** record of the current module

**step l.step** is a numerical value representing the user's current position within the wizard

#### Return Value

1 on success

**0** on failure (in case of failure, Admin will not allow the wizard to move on to the next screen)

**Note:** Invalidity flags can be set for use by the UI in a fashion similar to that of **PaymentModule\_Payment\_Invalid**.

Domain Wizards Feature (wizard)

# APPENDIX A Miva Script Source Files

The source code for the API functions is contained in the LSK. The core functions can be found in **features**, **lib/dbeng** and **lib/dbprim**. The **modules** directory contains examples of implementations of Miva Merchant features.

The following tables list the available source code files. The first table gives a brief description of each core source file. The second table lists the available modules and the features that they implement. These are provided to developers for reference purposes.

# LSK Source Files

The following table shows the primary source files in the Miva Merchant LSK.

Path/Filename	Description
1	
ajax.js	Functions that implement a browser-independent AJAX call mechanism
AttributeMachine.js	Browser-side JavaScript functionality for the Attribute Machine (dynamic attribute based inventory display)
json.mv	Entry point for module and core system functions that communicate using JSON
merchant.mv	Functions that implement the top-level shopping cart interface
runtime.js	Stub JavaScript functions for making AJAX calls into Miva Merchant
admin/	
functions.js	JavaScript stubs to call administrative functionality in <b>json.mvc</b>
modal.js	JavaScript functions that provide a modal user interface and dim elements below the current dialog box or other UI element
ui.js	Helper functions for JavaScript/AJAX Administrative UI functionality
ui.mv	Utility functions that draw and update Administrative UI features
v55_ui.js	Legacy JavaScript code used in PR5 and older administrative interface
validate.mv	Administrative UI data validation functions
wizardui.mv	Utility functions for building administrative wizards
features/	
aff/aff_db.mv	Affiliate System database functions
agr/agr_db.mv	Availability Group database functions
att/att_db.mv	Attribute Template database functions
cus/cus_db.mv	Customer database functions
cus/cus_rt.mv	Customer functions for shopping interface
inv/inv_db.mv	Inventory System database functions
inv/inv_rt.mv	Inventory System functions for shopping interface
pgr/pgr_db.mv	Price Group database functions
prv/prv_ad.mv	Provisioning system
rpd/rpd_db.mv	Related Products database functions
rpt/rpt_db.mv	Report System database functions
rpt/rpt_json.mv	JSON entry points for the report subsystem
sbm/sbm_db.mv	Miva Submit database functions
sta/sta_db.mv	Statistics database functions
tui/tui_db.mv	Template System database functions
tui/tui_mgr.mv	Template Manager
tui/tui_ut.mv	Template System utility functions
usl/usl_db.mv	Upsale System database functions

Path/Filename	Description
usl/usl_rt.mv	Upsale System functions for shopping interface
json/	
batches.mv	JSON functions that deal with order batches
countries.mv	JSON functions that deal with the <b>Countries</b> and <b>StoreCountries</b> tables
customers.mv	JSON functions that deal with the <b>Customers</b> table
orders.mv	JSON functions that deal with Orders and Order Items
payments.mv	JSON functions that deal with OrderPayments, authorizing payment, etc.
productkits.mv	JSON functions used by the Inventory Kit Builder
products.mv	JSON functions that deal with Products
productvariants.mv	JSON functions that provide Attribute Inventory functionality used on the <b>Inventory Variants</b> tab of the <b>Edit Product</b> screen
returns.mv	JSON functions that create and manage OrderReturns
runtime.mv	JSON functions used in the shopping interface for Attribute Inventory and other dynamic functionality
shipments.mv	JSON functions that create and manage OrderShipments
states.mv	JSON functions that deal with the <b>States</b> table
store.mv	JSON functions that deal with the <b>Stores</b> table
storemodules.mv	JSON functions that deal with the <b>StoreModules</b> table
trackinglinks.mv	JSON functions that deal with the <b>TrackingLinks</b> table
lib/	
config.mv	Set up global variables required for proper operation of Miva Merchant
crypto_public.mv	Functions for encrypting and decrypting payment data
dbapi_mivasql.mv	Database API compatibility layer – MivaSQL
dbapi_mysql.mv	Database API compatibility layer – MySQL
dbapi_public.mv	Database API compatibility layer
util_public.mv	Helper functions
lib/dbeng/	
attributes.mv	High level database functions that manipulate the <b>sNN_Attributes</b> and <b>sNN_Options</b> tables
baskets.mv	High level database functions that primarily manipulate the <b>sNN_Baskets</b> table
batches.mv	High level database functions that primarily manipulate the <b>sNN_Batches</b> table
categories.mv	High level database functions that primarily manipulate the <b>sNN_Categories</b> table
countries.mv	High level database functions that primarily manipulate the <b>Countries</b> table
create_domain.mv	High level database functions that create and initialize domain-level tables
create_store.mv	High level database functions that create and initialize the tables for a store
delete_domain.mv	High level database functions that drop and clean up domain-level tables
delete_store.mv	High level database functions that delete and clean up the database tables for a store
encryption.mv	High level database functions that manipulate the <b>sNN_Encryption</b> and <b>sNN_PrivateKeys</b> tables

Path/Filename	Description
fields.mv	High level database functions that primarily manipulate the sNN_StandardFields table
generatedimages.mv	High level database functions that create and manage dynamically resized images (sNN_GeneratedImages table)
images.mv	High level database functions that deal with PR8 and newer additional product images (sNN_lmages table)
imagetypes.mv	High level database functions that deal with registered image types
keys.mv	High level database functions that generate and maintain domain and store-level unique keys
open.mv	Provides functions for connecting to the database and referencing a specific store's database tables
order_compat.mv	High level functions that implement the 5.5 PR6 compatibility layer for the <b>sNN_Orders</b> table
orders.mv	High level database functions that primarily manipulate the <b>sNN_Orders</b> table
productimages.mv	High level database functions that manage the relationship between PR8 and newer additional product images and individual product records
productkits.mv	High level database functions that primarily manipulate the <b>sNN_ProductKits</b> table
products.mv	High level database functions that primarily manipulate the <b>sNN_Products</b> table
productvariants.mv	High level database functions that primarily manipulate the sNN_ProductVariants table
runtime.mv	High level database functions that provide shopping-interface specific operations
shipmentbatches.mv	High level database functions that create and manage sNN_ShipmentBatches records
sort.mv	High level database functions that implement sorting (product, category, etc.)
sql.mv	SQL query generation functions
states.mv	High level database functions that primarily manipulate the <b>sNN_States</b> table
trackinglinks.mv	High level database functions that primarily manipulate the <b>TrackingLinks</b> table
util.mv	Database layer utility functions
lib/dbprim	
attributes.mv	Primitive database functions that manipulate the <b>sNN_Attributes</b> table
basketcharges.mv	Primitive database functions that manipulate the <b>sNN_BasketCharges</b> table
basketitems.mv	Primitive database functions that manipulate the <b>sNN_BasketItems</b> table
basketoptions.mv	Primitive database functions that manipulate the <b>sNN_BasketOptions</b> table
baskets.mv	Primitive database functions that manipulate the <b>sNN_Baskets</b> table
batches.mv	Primitive database functions that manipulate the <b>sNN_Batches</b> table
categories.mv	Primitive database functions that manipulate the <b>sNN_Categories</b> table
categoryxproduct.mv	Primitive database functions that manipulate the sNN_CategoryXProduct table
countries.mv	Primitive database functions that manipulate the <b>Countries</b> table
domain.mv	Primitive database functions that manipulate the <b>Domain</b> table
domainkeys.mv	Primitive database functions that manipulate the <b>DomainKeys</b> table
encryption.mv	Primitive database functions that manipulate the <b>sNN_Encryption</b> and <b>sNN_PrivateKeys</b> tables

Path/Filename	Description
generatedimages.mv	Primitive database functions that manipulate the sNN_GeneratedImages table
images.mv	Primitive database functions that manipulate the <b>sNN_Images</b> table
imagetypes.mv	Primitive database functions that manipulate the <b>sNN_ImageTypes</b> table
launchpad.mv	Primitive database functions that manipulate the <b>LaunchConfig</b> table
options.mv	Primitive database functions that manipulate the sNN_Options table
ordercharges.mv	Primitive database functions that manipulate the sNN_OrderCharges table
orderitems.mv	Primitive database functions that manipulate the <b>sNN_OrderItems</b> table
orderoptions.mv	Primitive database functions that manipulate the <b>sNN_OrderOptions</b> table
orderpayments.mv	Primitive database functions that manipulate the sNN_OrderPayments table
orderreturns.mv	Primitive database functions that manipulate the sNN_OrderReturns table
orders.mv	Primitive database functions that manipulate the <b>sNN_Orders</b> table
ordershipments.mv	Primitive database functions that manipulate the sNN_OrderShipments table
productimages.mv	Primitive database functions that manipulate the sNN_ProductImages table
productkits.mv	Primitive database functions that manipulate the sNN_ProductKits table
products.mv	Primitive database functions that manipulate the sNN_Products table
productvariantparts.mv	Primitive database functions that manipulate the sNN_ProductVariantParts table
productvariantpricing.mv	Primitive database functions that manipulate the sNN_ProductVariantPricing table
productvariants.mv	Primitive database functions that manipulate the sNN_ProductVariants table
seo_settings.mv	Primitive database functions that manipulate the <b>SEOSettings</b> table
shipmentbatches.mv	Primitive database functions that manipulate the sNN_ShipmentBatches table
standardfields.mv	Primitive database functions that manipulate the sNN_StandardFields table
states.mv	Primitive database functions that manipulate the <b>sNN_States</b> table
storecountries.mv	Primitive database functions that manipulate the sNN_StoreCountries table
storekeys.mv	Primitive database functions that manipulate the sNN_StoreKeys table
stores.mv	Primitive database functions that manipulate the <b>Stores</b> table
trackinglinks.mv	Primitive database functions that manipulate the <b>TrackingLinks</b> table
templates/	
batchreport-order-invoice.css	Cascading style sheet for <b>Batch Report Order Invoice</b> page
batchreport-order-invoice.mvt	Template for Batch Report Order Invoice page
batchreport-shipment-picklist.css	Cascading style sheet for Batch Report Shipment Picklist page
batchreport-shipment-picklist.mvt	Template for Batch Report Shipment Picklist page
cssui.css	Default style sheet
cssui-abus.mvt	CSSUI template for <b>About Us</b> page
cssui-acad.mvt	CSSUI template for Customer Create page
cssui-aced.mvt	CSSUI template for Customer Edit page
cssui-acln.mvt	CSSUI template for Customer Account page
cssui-afad.mvt	CSSUI template for Affliate Create page
cssui-afcl.mvt	CSSUI template for Affiliate Login page

Path/Filename	Description.
cssui-afed.mvt	Description  CSSUI template for Affiliate Edit page
cssui-bask.mvt	CSSUI template for Annate Edit page  CSSUI template for Basket Contents page
cssui-bask.mvt	
	CSSUI template for Checkout: Basket Empty page
cssui-ctgy.mvt	CSSUI template for Category Display page
cssui-ctus.mvt	CSSUI template for Contact Us page
cssui-faqs.mvt	CSSUI template for <b>FAQs</b> page
cssui-invc.mvt	CSSUI template for Invoice page
cssui-logn.mvt	CSSUI template for Customer Login page
cssui-mntn.mvt	CSSUI template for Maintenance Mode page
cssui-ntfd.mvt	CSSUI template for Not Found page
cssui-ocst.mvt	CSSUI template for Checkout: Customer Information page
cssui-omin.mvt	CSSUI template for Checkout: Minimum Purchase Required page
cssui-opay.mvt	CSSUI template for Checkout: Payment Information page
cssui-oprc.mvt	CSSUI template for Order Already Processed page
cssui-ordh.mvt	CSSUI template for <b>Order History List</b> page
cssui-ordl.mvt	CSSUI template for Order: Customer Login page
cssui-ords.mvt	CSSUI template for <b>Order Status</b> page
cssui-orhl.mvt	CSSUI template for Lookup Order History page
cssui-osel.mvt	CSSUI template for Checkout: Shipping/Payment Selection page
cssui-ous1.mvt	CSSUI template for Checkout: Upsell Product (single) page
cssui-ousm.mvt	CSSUI template for Checkout: Upsell Product (multiple) page
cssui-patr.mvt	CSSUI template for Missing Product Attributes page
cssui-plmt.mvt	CSSUI template for <b>Product Limited Stock</b> page
cssui-plst.mvt	CSSUI template for <b>Product List</b> page
cssui-pout.mvt	CSSUI template for <b>Product Sold Out</b> page
cssui-prod.mvt	CSSUI template for <b>Product Display</b> page
cssui-prpo.mvt	CSSUI template for <b>Privacy Policy</b> page
cssui-sarp.mvt	CSSUI template for Shipping and Return Policy page
cssui-sfnt.mvt	CSSUI template for <b>Storefront</b> page
cssui-smap.mvt	CSSUI template for <b>Sitemap</b> page
cssui-srch.mvt	CSSUI template for Search page
cssui-uatm.mvt	CSSUI template for Upsell: Missing Product Attributes (multiple) page
cssui-uatr.mvt	CSSUI template for Upsell: Missing Product Attributes (single) page
email-backorder-notice.mvt	Email template for Backorder Notice
email-orderconf-customer.mvt	Email template for Order Confirmation: Customer
email-orderconf-merchant.mvt	Email template for Order Confirmation: Merchant
email-return-received.mvt	Email template for Return Received
email-rma-issued.mvt	Email template for RMA Issued

Path/Filename	Description
email-shipment-shipped.mvt	Email template for Shipment Shipped
mmui-acad.mvt	MMUI template for Customer Create page
mmui-aced.mvt	MMUI template for Customer Edit page
mmui-acln.mvt	MMUI template for Customer Account page
mmui-afad.mvt	MMUI template for Affliate Create page
mmui-afcl.mvt	MMUI template for Affiliate Login page
mmui-afed.mvt	MMUI template for Affiliate Edit page
mmui-bask.mvt	MMUI template for Basket Contents page
mmui-bske.mvt	MMUI template for Checkout: Basket Empty page
mmui-ctgy.mvt	MMUI template for Category Display page
mmui-invc.mvt	MMUI template for Invoice page
mmui-logn.mvt	MMUI template for Customer Login page
mmui-mntn.mvt	MMUI template for Maintenance Mode page
mmui-ntfd.mvt	MMUI template for Not Found page
mmui-ocst.mvt	MMUI template for Checkout: Customer Information page
mmui-omin.mvt	MMUI template for Checkout: Minimum Purchase Required page
mmui-opay.mvt	MMUI template for Checkout: Payment Information page
mmui-oprc.mvt	MMUI template for Order Already Processed page
mmui-ordh.mvt	MMUI template for Order History List page
mmui-ordl.mvt	MMUI template for Order: Customer Login page
mmui-ords.mvt	MMUI template for Order Status page
mmui-orhl.mvt	MMUI template for Lookup Order History page
mmui-osel.mvt	MMUI template for Checkout: Shipping/Payment Selection page
mmui-ous1.mvt	MMUI template for Checkout: Upsell Product (single) page
mmui-ousm.mvt	MMUI template for Checkout: Upsell Product (multiple) page
mmui-patr.mvt	MMUI template for Missing Product Attributes page
mmui-plmt.mvt	MMUI template for <b>Product Limited Stock</b> page
mmui-plst.mvt	MMUI template for <b>Product List</b> page
mmui-pout.mvt	MMUI template for <b>Product Sold Out</b> page
mmui-prod.mvt	MMUI template for <b>Product Display</b> page
mmui-sfnt.mvt	MMUI template for <b>Storefront</b> page
mmui-smap.mvt	MMUI template for <b>Sitemap</b> page
mmui-smap-css_fw.mvt	MMUI template for the <b>Sitemap</b> page when the <b>css_fw</b> framework has been applied
mmui-srch.mvt	MMUI template for Search page
mmui-uatm.mvt	MMUI template for Upsell: Missing Product Attributes (multiple) page
mmui-uatr.mvt	MMUI template for Upsell: Missing Product Attributes (single) page

## The Modules Directory

The following table lists the modules available in the LSK and the features that they implement.

Path/Filename	Features	
modules/batch		
stdacct.mv	batchreport	
templatebatchreports.mv	batchreport, util, vis util, data store, json, clientside, provision store	
modules/component		
cmp-cssui-afae.mv	component, component_prov, designer, skins	
cmp-cssui-afflink.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-attributes.mv	component, component_prov, designer, skins	
cmp-cssui-basket.mv	component, component_prov, designer, skins	
cmp-cssui-buttons.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-cattitle.mv	component, data_store, vis_category, provision_store, skins, not_cat	
cmp-cssui-cattree.mv	component, designer, data_store, vis_store, vis_category, provision_store, skins, not_cat	
cmp-cssui-countryselect.mv	component	
cmp-cssui-custfields.mv	component, not_fields, component_prov, designer, skins	
cmp-cssui-custlink	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-hdft.mv	component, data_store, vis_store, provision_store, component_prov, designer, skins	
cmp-cssui-head.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-html.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-invc-custfields.mv	component, not_fields, component_prov, designer, skins	
cmp-cssui-invc-order.mv	component_prov, designer, skins	
cmp-cssui-links.mv	component, not_seo	
cmp-cssui-messages.mv	component	
cmp-cssui-navbar.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-cssui-orderlist.mv	component, skins, component_prov	
cmp-cssui-pchdft.mv	component, data_store, vis_product, vis_category, provision_store, skins, fields_prod, fields_cat, not_prod, not_cat	
cmp-cssui-prodlayo.mv	component_prov, designer, skins	
cmp-cssui-prodlist.mv	component_prov, designer, skins	
cmp-cssui-sitemap.mv	component_prov, designer, skins	
cmp-mmui-uslmltplattr.mv	component	
cmp-cssui-vieworder.mv	component, skins, component_prov	
cmp-mmui-afae.mv	component_prov, designer, skins	
cmp-mmui-afflink.mv	component, data_store, vis_store, provision_store, designer, skins	
cmp-mmui-attributes.mv	component_prov, designer, skins	
cmp-mmui-basket.mv	component_prov, designer, skins	
cmp-mmui-body.mv	component, data_store, vis_store, provision_store, designer, skins	

Path/Filename	Features		
cmp-mmui-buttons.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-cattitle.mv	component, data_store, vis_category, provision_store, skins, not_cat		
cmp-mmui-cattree.mv	component, designer, data_store, vis_store, vis_category, provision_store, skins, not_cat		
cmp-mmui-colors.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-custfields.mv	component, not_fields, component_prov, designer, skins		
cmp-mmui-custlink.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-fonts.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-invc-custfields.mv	component, not_fields, component_prov, designer, skins		
cmp-mmui-invc-order.mv	component, component_prov, designer, skins		
cmp-mmui-messages.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-navbar.mv	component, data_store, vis_store, provision_store, designer, skins		
cmp-mmui-orderlist.mv	component_prov, skins		
cmp-mmui-pchdft.mv	component, data_store, vis_product, vis_category, provision_store, skins, fields_prod, fields_cat, not_prod, not_cat		
cmp-mmui-prodlayo.mv	component, component_prov, designer, skins		
cmp-mmui-prodlist.mv	component_prov, designer, skins		
cmp-mmui-sitemap.mv	component_prov, designer, skins		
cmp-mmui-usImItplattr.mv	component		
cmp-mmui-vieworder.mv	component_prov, skins		
cmp-mv-adminorderfields.mv	component		
cmp-mv-attributemachine.mv	data_store, component_prov, skins		
cmp-mv-inventory.mv	component		
cmp-mv-messages.mv	component		
cmp-mv-paymentfields.mv	component		
cmp-mv-payselect.mv	component		
cmp-mv-prodctgy-meta.mv	component, data_store, vis_category, vis_product, fields_prod, vis_store, fields_cat, not_prod, not_cat		
cmp-mv-shipselect.mv	component		
cmp-mv-stateselect.mv	component		
cmp-mv-stdcatfields.mv	component		
cmp-mv-stdorderfields.mv	component		
cmp-mv-stdorderitemfields.mv	component		
cmp-mv-stdprodfields.mv	component		
cmp-mv-stdreturnfields.mv	component		
cmp-mv-stdshipmentfields.mv	component		
cmp-mv-stdstorefields.mv	component		
cmp-mv-taxfields.mv	component		
cmp-mv-uslprodfields.mv	component		

D-44/E1	Footonia		
Path/Filename	Features  Include file that is used to generate SEO friendly shoutlinks for CSSLII common anta. It is		
cssui_seo.mv	Include file that is used to generate SEO-friendly shortlinks for CSSUI components. It is included in other modules (such as <b>cmp-cssui-links</b> ) via <b><mvinclude></mvinclude></b> .		
modules/currency			
eurocur.mv	currency, vis_store, provision_store, data_store		
gencurr.mv	currency, vis_store, provision_store, data_store		
usmoney.mv	currency		
modules/export			
afilexprt.mv	export		
attrexp.mv	export		
export_include.mv	Helper functions for export modules. Included via <b><mvinclude></mvinclude></b> into many of the export modules.		
flatcat.mv	export		
flatcus.mv	export		
flatord.mv	export		
prodexp.mv	export		
modules/fulfill			
custeml.mv	fulfill, vis_fulfill, vis_wizard, provision_store, data_store		
meremail.mv	fulfill, vis_fulfill, vis_wizard, provision_store, data_store		
templateorderemails.mv	fulfill, vis_fulfill, vis_order, not_orderitem, not_ordershpmnt, data_store, json, clientside, provision_store		
modules/import			
categoryimport.mv	import		
customerimport.mv	import		
flatcati.mv	import		
flatcusi.mv	import		
import_include.mv	Helper functions for import modules. Included via <b><mvinclude></mvinclude></b> into many of the import modules.		
prodimpt.mv	import		
productimport.mv	import		
provimpt.mv	import		
provisioningimport.mv	import		
modules/log			
elf.mv	log, vis_log, data_store, provision_store		
malf.mv	log, vis_log, data_store, provision_store		
modules/payment	modules/payment		
check.mv	payment, vis_wizard		
check_detailed.mv	payment, vis_wizard		
cod.mv	payment, vis_payment, vis_wizard, provision_store, data_store		
mod10.mv	payment, vis_payment, vis_wizard, provision_store, data_store		

Path/Filename	Features
modules/report	1 catures
geosales.mv	report
productsales.mv	report
sales.mv	report
stats.mv	report
modules/shipping	*
baseunit.mv	shipping, vis_shipping, vis_wizard, provision_store, data_store
flatrate.mv	shipping, vis_shipping, vis_wizard, provision_store, data_store
minunit.mv	shipping, vis_shipping, vis_wizard, provision_store, data_store
ptbship.mv	shipping, vis_product, vis_shipping, vis_wizard, provision_store, data_store, not_prod
qship.mv	shipping, vis_shipping, vis_wizard, provision_store, data_store
wtbship.mv	shipping, vis_product, vis_shipping, vis_wizard, provision_store, data_store, not_prod
modules/system	
ex-system.mv	system, vis_system
modules/tax	
canvat.mv	tax, vis_product, vis_store, vis_wizard, provision_store, data_store, not_prod
devat.mv	tax, vis_product, vis_store, vis_wizard, provision_store, data_store, not_prod
shoptax.mv	tax, vis_store, vis_wizard, provision_store, data_store
statetax.mv	tax, vis_store, vis_wizard, provision_store, data_store
vat.mv	tax, vis_product, vis_store, vis_wizard, provision_store, data_store, not_prod
modules/ui	
cssui.mv	storeui, vis_store, data_store, not_seo
mmui.mv	storeui, vis_store, vis_wizard, data_store, not_seo
mmui_stsl.mv	storeselui, data_domain
modules/util	
customfld.mv	util, vis_util, vis_category, not_cat, fields_cat, vis_product, not_prod, fields_prod, vis_cust, not_cust, fields_cust, data_store, provision_store
productimagecustomfields.mv	util, fields_prod, provision_store

Appendix A: Miva Script Source Files *The Modules Directory* 

## APPENDIX B API Functions

## Miva Merchant Functions

The following table shows available functions and where they can be found. Module API functions are filed under their lowercase Feature designation (e.g., **batchreport**). All others are listed with the location of the source code file.

Function	File Location/Feature	Module
Action_AddMultipleUpsoldProductsToBasket	features/usl/usl_rt.mv	Upsale Runtime
Action_AddProductToBasket	/merchant.mv	Shopping Interface
Action_AddUpsoldProductToBasket	features/usl/usl_rt.mv	Upsale Runtime
Action_AuthorizePayment	/merchant.mv	Shopping Interface
Action_AuthorizePayment_LowLevel	/merchant.mv	Shopping Interface
Action_CalculateShipping	/merchant.mv	Shopping Interface
Action_CalculateTax	/merchant.mv	Shopping Interface
Action_Customer_EmailPassword	features/cus/cus_rt.mv	Customer Runtime
Action_Customer_Insert	features/cus/cus_rt.mv	Customer Runtime
Action_Customer_Login	features/cus/cus_rt.mv	Customer Runtime
Action_Customer_Logout	features/cus/cus_rt.mv	Customer Runtime
Action_Customer_Update	features/cus/cus_rt.mv	Customer Runtime
Action_Customer_Upsell	/merchant.mv	Shopping Interface
Action_PaymentManipulateShipping	/merchant.mv	Shopping Interface
Action_RemoveProductFromBasket	/merchant.mv	Shopping Interface
Action_Save_OrderInformation	/merchant.mv	Shopping Interface

Function	File Location/Feature	Module
Action_UpdateQuantity	/merchant.mv	Shopping Interface
Adjusted_Price	lib/util_public.mv	Helper Functions
Adjusted_Price_LowLevel	lib/util_public.mv	Helper Functions
AFF_Create_Data_Files	features/aff/aff_db.mv	Affiliate System
AFF_Store_Delete	features/aff/aff_db.mv	Affiliate System
Affiliate_Create_Order	features/aff/aff_db.mv	Affiliate System
Affiliate_Delete	features/aff/aff_db.mv	Affiliate System
Affiliate_Delete_ID	features/aff/aff_db.mv	Affiliate System
Affiliate_Insert	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_Code	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_First	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_ID	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_Last	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_Next	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_Previous	features/aff/aff_db.mv	Affiliate System
Affiliate_Load_Session	features/aff/aff_db.mv	Affiliate System
Affiliate_Read	features/aff/aff_db.mv	Affiliate System
Affiliate_Update	features/aff/aff_db.mv	Affiliate System
Affiliate_Update_Balance	features/aff/aff_db.mv	Affiliate System
Affiliate_Update_SessionID	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Delete_Aff	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Delete_ID	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Insert	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Load_ID	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Read	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Read_Affiliate	features/aff/aff_db.mv	Affiliate System
AffiliateEarning_Update	features/aff/aff_db.mv	Affiliate System
AffiliateEarningList_Load_Offset_Affiliate	features/aff/aff_db.mv	Affiliate System
AffiliateEarningList_Load_Offset_Payout	features/aff/aff_db.mv	Affiliate System
AffiliateEarningList_Load_Payout	features/aff/aff_db.mv	Affiliate System
AffiliateEmail_Insert	features/aff/aff_db.mv	Affiliate System
AffiliateEmail_Load	features/aff/aff_db.mv	Affiliate System
AffiliateEmail_Read	features/aff/aff_db.mv	Affiliate System
AffiliateEmail_Update	features/aff/aff_db.mv	Affiliate System
AffiliateList_Load_All	features/aff/aff_db.mv	Affiliate System
AffiliateList_Load_Offset_All	features/aff/aff_db.mv	Affiliate System
AffiliateList_Load_Offset_EmailList_All	features/aff/aff_db.mv	Affiliate System
AffiliateList_Load_Offset_EmailList_Assigned	features/aff/aff_db.mv	Affiliate System

Function	File Location/Feature	Module
AffiliateList_Load_Offset_EmailList_Unassigned	features/aff/aff_db.mv	Affiliate System
AffiliateManage_Insert	features/aff/aff_db.mv	Affiliate System
AffiliateManage_Load	features/aff/aff_db.mv	Affiliate System
AffiliateManage_Read	features/aff/aff_db.mv	Affiliate System
AffiliateManage_Update	features/aff/aff_db.mv	Affiliate System
AffiliateOptions_Insert	features/aff/aff_db.mv	Affiliate System
AffiliateOptions_Load	features/aff/aff_db.mv	Affiliate System
AffiliateOptions_Read	features/aff/aff_db.mv	Affiliate System
AffiliateOptions_Update	features/aff/aff_db.mv	Affiliate System
AffiliatePayout_Delete_ID	features/aff/aff_db.mv	Affiliate System
AffiliatePayout_Insert	features/aff/aff_db.mv	Affiliate System
AffiliatePayout_Load_ID	features/aff/aff_db.mv	Affiliate System
AffiliatePayout_Read	features/aff/aff_db.mv	Affiliate System
AffiliatePayout_Update	features/aff/aff_db.mv	Affiliate System
AffiliatePayoutList_Load_Offset_All	features/aff/aff_db.mv	Affiliate System
AffiliatePayoutList_Load_Offset_Processed	features/aff/aff_db.mv	Affiliate System
AffiliatePayoutList_Load_Offset_Unprocessed	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Delete_Affil_code	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Delete_All	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Delete_All_OlderThan	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Insert	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Load_Session	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Read	features/aff/aff_db.mv	Affiliate System
AffiliateSession_Update_Session	features/aff/aff_db.mv	Affiliate System
AffiliateSessionList_Load_Affil_code	features/aff/aff_db.mv	Affiliate System
AGR_Create_Data_Files	features/agr/agr_db.mv	Availability Group
AGR_Store_Create	features/agr/agr_db.mv	Availability Group
AGR_Store_Delete	features/agr/agr_db.mv	Availability Group
AlphaNumericOnly	lib/util_public.mv	Helper Functions
AppendRuntimeParameter	lib/util_public.mv	Helper Functions
ATT_Create_Data_Files	features/att/att_db.mv	Attribute Template
ATT_Store_Create	features/att/att_db.mv	Attribute Template
ATT_Store_Delete	features/att/att_db.mv	Attribute Template
Attribute_Delete	lib/dbeng/attributes.mv	Database API
Attribute_Delete_All_Product	lib/dbprim/attributes.mv	Database API
Attribute_Delete_ID	lib/dbprim/attributes.mv	Database API
Attribute_Insert	lib/dbeng/attributes.mv	Database API
Attribute_Insert_LowLevel	lib/dbprim/attributes.mv	Database API

Function	File Location/Feature	Module
Attribute_Load_Code	lib/dbprim/attributes.mv	Database API
Attribute_Load_ID	lib/dbprim/attributes.mv	Database API
Attribute_Read	lib/dbprim/attributes.mv	Database API
Attribute_Sort_Swap	lib/dbeng/sort.mv	Database API
Attribute_Update	lib/dbprim/attributes.mv	Database API
Attribute_Update_Default	lib/dbprim/attributes.mv	Database API
Attribute_Update_DisplayOrder	lib/dbprim/attributes.mv	Database API
Attribute_Update_Inventory	lib/dbeng/attributes.mv	Database API
Attribute_Update_Inventory_LowLevel	lib/dbprim/attributes.mv	Database API
AttributeList_Load_Product	lib/dbprim/attributes.mv	Database API
AttributeList_Load_Product_Inventory	lib/dbprim/attributes.mv	Database API
AttributeList_Load_ProductVariant_Possible	lib/dbeng/productvariants.mv	Database API
AttributeList_Load_Template	features/att/att_db.mv	Attribute Template
AttributeTemplate_Copy	features/att/att_db.mv	Attribute Template
AttributeTemplate_Decrement_ReferenceCount	features/att/att_db.mv	Attribute Template
AttributeTemplate_Decrement_ReferenceCount_Product	features/att/att_db.mv	Attribute Template
AttributeTemplate_Delete	features/att/att_db.mv	Attribute Template
AttributeTemplate_Delete_ID	features/att/att_db.mv	Attribute Template
AttributeTemplate_Increment_ReferenceCount	features/att/att_db.mv	Attribute Template
AttributeTemplate_Insert	features/att/att_db.mv	Attribute Template
AttributeTemplate_Load_Code	features/att/att_db.mv	Attribute Template
AttributeTemplate_Load_ID	features/att/att_db.mv	Attribute Template
AttributeTemplate_Read	features/att/att_db.mv	Attribute Template
AttributeTemplate_Update	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Delete	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Delete_Attr	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Delete_ID	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Delete_ID_LowLevel	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Delete_Template	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Insert	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Load_Code	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Load_Product_Code	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Read	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Update	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Update_Inventory	features/att/att_db.mv	Attribute Template
AttributeTemplateAttr_Update_Inventory_LowLevel	features/att/att_db.mv	Attribute Template
AttributeTemplateAttributeList_Update_Offsets	features/att/att_db.mv	Attribute Template
AttributeTemplateAttributeList_Update_Offsets_PastEnd	features/att/att_db.mv	Attribute Template

Function	File Location/Feature	Module
AttributeTemplateAttributeOptionList_Update_Offsets	features/att/att_db.mv	Attribute Template
AttributeTemplateAttributeOptionList_Update_Offsets _PastEnd	features/att/att_db.mv	Attribute Template
AttributeTemplateAttrList_Load_All	features/att/att_db.mv	Attribute Template
AttributeTemplateAttrList_Load_Template	features/att/att_db.mv	Attribute Template
AttributeTemplateList_Load_All	features/att/att_db.mv	Attribute Template
AttributeTemplateList_Load_Offset	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete_All_Attribute	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete_All_Attribute_LowLevel	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete_ID	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete_ID_LowLevel	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Delete_Template	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Insert	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Load_Code	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Load_ID	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Read	features/att/att_db.mv	Attribute Template
AttributeTemplateOption_Update	features/att/att_db.mv	Attribute Template
AttributeTemplateOptionList_Load_Attribute	features/att/att_db.mv	Attribute Template
AttributeTree_Load_Product	lib/dbeng/productvariants.mv	Database API
AttributeTree_Load_ProductKit	lib/dbeng/productkits.mv	Database API
AvailabilityGroup_Delete	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Delete_ID	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Insert	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Load_ID	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Load_Name	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Read	features/agr/agr_db.mv	Availability Group
AvailabilityGroup_Update	features/agr/agr_db.mv	Availability Group
AvailabilityGroupList_Load_All	features/agr/agr_db.mv	Availability Group
AvailabilityGroupList_Load_Offset	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Delete	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Delete_All_AvailabilityGroup	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Delete_All_Category	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Delete_LowLevel	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Insert	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Insert_LowLevel	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Load	features/agr/agr_db.mv	Availability Group
AvailGroupXCategory_Read	features/agr/agr_db.mv	Availability Group

Function	File Location/Feature	Module
AvailGroupXCustomer_Delete	features/agr/agr_db.mv	Availability Group
AvailGroupXCustomer_Delete_All_AvailabilityGroup	features/agr/agr_db.mv	Availability Group
AvailGroupXCustomer_Delete_All_Customer	features/agr/agr_db.mv	Availability Group
AvailGroupXCustomer_Insert	features/agr/agr_db.mv	Availability Group
AvailGroupXCustomer_Load	features/agr/agr_db.mv	Availability Group
AvailGroupXCustomer_Read	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Delete	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Delete_All_AvailabilityGroup	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Delete_All_Product	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Delete_LowLevel	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Insert	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Insert_LowLevel	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Load	features/agr/agr_db.mv	Availability Group
AvailGroupXProduct_Read	features/agr/agr_db.mv	Availability Group
Basket_Clear_Affiliate_Session	lib/dbprim/baskets.mv	Database API
Basket_Clear_Customer_ID	lib/dbprim/baskets.mv	Database API
Basket_Clear_Customer_Information	lib/dbprim/baskets.mv	Database API
Basket_Delete	features/aff/aff_db.mv	Affiliate System
Basket_Delete_All	lib/dbeng/baskets.mv	Database API
Basket_Delete_All_OlderThan	lib/dbeng/baskets.mv	Database API
Basket_Delete_ID	lib/dbprim/baskets.mv	Database API
Basket_Dirty	lib/dbeng/baskets.mv	Database API
Basket_Insert	lib/dbprim/baskets.mv	Database API
Basket_InventoryAdjust_ProductList	lib/dbeng/baskets.mv	Database API
Basket_Load_Session	lib/dbprim/baskets.mv	Database API
Basket_Quantity	lib/dbeng/baskets.mv	Database API
Basket_Quantity_All	lib/dbeng/baskets.mv	Database API
Basket_Quantity_Upsold	lib/dbeng/baskets.mv	Database API
Basket_Read	lib/dbprim/baskets.mv	Database API
Basket_Reset	lib/dbeng/baskets.mv	Database API
Basket_Reset_Basket	lib/dbeng/baskets.mv	Database API
Basket_Reset_Contents	lib/dbeng/baskets.mv	Database API
Basket_SubTotal	lib/dbeng/baskets.mv	Database API
Basket_SubTotal_Taxable	lib/dbeng/baskets.mv	Database API
Basket_Total	lib/dbeng/baskets.mv	Database API
Basket_Update_Affiliate_Session	lib/dbprim/baskets.mv	Database API
Basket_Update_Customer_ID	lib/dbprim/baskets.mv	Database API
Basket_Update_Customer_Information	lib/dbprim/baskets.mv	Database API

Function	File Location/Feature	Module
Basket_Update_LastUpdate	lib/dbprim/baskets.mv	Database API
Basket_Update_Order	lib/dbprim/baskets.mv	Database API
Basket_Update_Shipping	lib/dbprim/baskets.mv	Database API
Basket_Weight	lib/dbeng/baskets.mv	Database API
BasketCharge_Count_Type	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Delete_All_Basket	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Delete_All_Module	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Delete_All_Type	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Delete_Charge	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Insert	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Read	lib/dbprim/basketcharges.mv	Database API
BasketCharge_Total	lib/dbeng/baskets.mv	Database API
BasketChargeList_Load_Basket	lib/dbprim/basketcharges.mv	Database API
BasketChargeList_Load_Type	lib/dbprim/basketcharges.mv	Database API
BasketItem_Delete_All_Basket	lib/dbprim/basketitems.mv	Database API
BasketItem_Delete_Line	lib/dbprim/basketitems.mv	Database API
BasketItem_Increment_Quantity	lib/dbprim/basketitems.mv	Database API
BasketItem_Insert	lib/dbprim/basketitems.mv	Database API
BasketItem_Load_Line	lib/dbprim/basketitems.mv	Database API
BasketItem_Read	lib/dbprim/basketitems.mv	Database API
BasketItem_Total	lib/dbeng/baskets.mv	Database API
BasketItem_Weight	lib/dbeng/baskets.mv	Database API
BasketItemList_Load_Basket	lib/dbprim/basketitems.mv	Database API
BasketItemList_Load_Basket_Product	lib/dbprim/basketitems.mv	Database API
BasketItemList_Load_Upsold	lib/dbprim/basketitems.mv	Database API
BasketOption_Delete_All_Attribute	lib/dbprim/basketoptions.mv	Database API
BasketOption_Delete_All_Basket	lib/dbprim/basketoptions.mv	Database API
BasketOption_Delete_All_Line	lib/dbprim/basketoptions.mv	Database API
BasketOption_Insert	lib/dbprim/basketoptions.mv	Database API
BasketOption_Read	lib/dbprim/basketoptions.mv	Database API
BasketOption_Total	lib/dbeng/baskets.mv	Database API
BasketOption_Weight	lib/dbeng/baskets.mv	Database API
BasketOptionList_Load_Line	lib/dbprim/basketoptions.mv	Database API
Batch_Create	lib/dbeng/batches.mv	Database API
Batch_Create_OrderList	lib/dbeng/batches.mv	Database API
Batch_Delete_ID	lib/dbprim/batches.mv	Database API
Batch_Insert	lib/dbprim/batches.mv	Database API
Batch_Load_ID	lib/dbprim/batches.mv	Database API

Function	File Location/Feature	Module
Batch_Read	lib/dbprim/batches.mv	Database API
BatchList_Load_All	lib/dbprim/batches.mv	Database API
BatchList_Load_Closed	lib/dbprim/batches.mv	Database API
BatchList_Load_Offset	lib/dbprim/batches.mv	Database API
BatchReportModule_Order_Reports	Feature batchreport	Module API
BatchReportModule_Report	Feature batchreport	Module API
BatchReportModule_Run_OrderList	Feature batchreport	Module API
BatchReportModule_Run_ShipmentList	Feature batchreport	Module API
BatchReportModule_Shipment_Reports	Feature batchreport	Module API
BeginContent	admin/ui.mv	Administrative UI
BeginScreen	admin/ui.mv	Administrative UI
BeginScreen_End	admin/ui.mv	Administrative UI
BeginScreen_Start	admin/ui.mv	Administrative UI
BestSellerList_Load_Offset	features/sta/sta_db.mv	Statistics
BoxPackingModule_Box_Delete	Feature boxpacking	Module API
BoxPackingModule_Box_Field	Feature boxpacking	Module API
BoxPackingModule_Box_Fields	Feature boxpacking	Module API
BoxPackingModule_Box_Insert	Feature boxpacking	Module API
BoxPackingModule_Box_Invalid	Feature boxpacking	Module API
BoxPackingModule_Box_Prompt	Feature boxpacking	Module API
BoxPackingModule_Box_Provision	Feature boxpacking	Module API
BoxPackingModule_Box_Update	Feature boxpacking	Module API
BoxPackingModule_Box_Validate	Feature boxpacking	Module API
BoxPackingModule_Box_Items	Feature boxpacking	Module API
Build_Attribute_Hash	lib/util_public.mv	Helper Functions
Category_Decrement_AvailabilityGroupCount	lib/dbprim/categories.mv	Database API
Category_Decrement_AvailabilityGroupCount_All	lib/dbeng/categories.mv	Database API
Category_Delete	lib/dbeng/categories.mv	Database API
Category_Delete_ID	lib/dbprim/categories.mv	Database API
Category_Increment_AvailabilityGroupCount	lib/dbprim/categories.mv	Database API
Category_Insert	lib/dbprim/categories.mv	Database API
Category_Load_Code	lib/dbprim/categories.mv	Database API
Category_Load_DisplayOrder	lib/dbprim/categories.mv	Database API
Category_Load_First	lib/dbeng/categories.mv	Database API
Category_Load_ID	lib/dbprim/categories.mv	Database API
Category_Load_Last	lib/dbeng/categories.mv	Database API
Category_Load_Next	lib/dbeng/categories.mv	Database API
Category_Load_Previous	lib/dbeng/categories.mv	Database API

Function	File Location/Feature	Module
Category_Read	lib/dbprim/categories.mv	Database API
Category_Sort_All	lib/dbeng/sort.mv	Database API
Category_Sort_Swap	lib/dbeng/sort.mv	Database API
Category_Update	lib/dbprim/categories.mv	Database API
Category_Update_DisplayOrder	lib/dbprim/categories.mv	Database API
Category_Update_Parent_All	lib/dbprim/categories.mv	Database API
CategoryList_Load_All	lib/dbprim/categories.mv	Database API
CategoryList_Load_Offset	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_AvailabilityGroup_All	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_AvailabilityGroup_Assigned	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_AvailabilityGroup _Unassigned	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_Product_All	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_Product_Assigned	lib/dbeng/categories.mv	Database API
CategoryList_Load_Offset_Product_Unassigned	lib/dbeng/categories.mv	Database API
CategoryList_Load_Parent	lib/dbprim/categories.mv	Database API
CategoryList_Update_Offsets	lib/dbeng/categories.mv	Database API
CategoryList_Update_Offsets_PastEnd	lib/dbeng/categories.mv	Database API
CategoryXProduct_Delete	lib/dbeng/categories.mv	Database API
CategoryXProduct_Delete_All_Category	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Delete_All_Product	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Delete_LowLevel	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Insert	lib/dbeng/categories.mv	Database API
CategoryXProduct_Insert_LowLevel	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Load	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Load_Category	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Load_DisplayOrder	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Read	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Sort_All	lib/dbeng/sort.mv	Database API
CategoryXProduct_Sort_Swap	lib/dbeng/sort.mv	Database API
CategoryXProduct_Update_DisplayOrder	lib/dbprim/categoryxproduct.mv	Database API
CategoryXProduct_Update_Offsets	lib/dbeng/categories.mv	Database API
CategoryXProduct_Update_Offsets_PastEnd	lib/dbeng/categories.mv	Database API
ClearCookie	lib/util_public.mv	Helper Functions
ComponentModule_Content	Feature component	Module API
ComponentModule_Defaults	Feature component	Module API
ComponentModule_Initialize	Feature component	Module API
ComponentModule_Page_Assign	Feature component	Module API

Function	File Location/Feature	Module
ComponentModule_Page_Unassign	Feature component	Module API
ComponentModule_Prerender	Feature component	Module API
ComponentModule_Provision	Feature component_prov	Module API
ComponentModule_Render_End	Feature component	Module API
ComponentModule_Render_Start	Feature component	Module API
ComponentModule_Tabs	Feature component	Module API
ComponentModule_Update	Feature component	Module API
ComponentModule_Validate	Feature component	Module API
Country_Delete	lib/dbprim/countries.mv	Database API
Country_Insert	lib/dbprim/countries.mv	Database API
Country_Load_Alpha	lib/dbprim/countries.mv	Database API
Country_Load_ID	lib/dbprim/countries.mv	Database API
Country_Load_Iso_code	lib/dbprim/countries.mv	Database API
Country_Load_Name	lib/dbprim/countries.mv	Database API
Country_Read	lib/dbprim/countries.mv	Database API
Country_Select	lib/util_public.mv	Helper Functions
Country_Update	lib/dbprim/countries.mv	Database API
CountryList_Load_All	lib/dbprim/countries.mv	Database API
CountryList_Load_Alpha	lib/dbprim/countries.mv	Database API
CountryList_Load_Offset_All	lib/dbeng/countries.mv	Database API
CountryList_Load_Offset_Store_All	lib/dbeng/countries.mv	Database API
CountryList_Load_Offset_Store_Assigned	lib/dbeng/countries.mv	Database API
CountryList_Load_Offset_Store_Unassigned	lib/dbeng/countries.mv	Database API
Create_Data_Files	features/usl/usl_db.mv	Upsale Database
CreateDataFiles	lib/dbeng/create_domain.mv	Database API
CurrencyModule_AddFormatPlainText	Feature currency	Module API
CurrencyModule_AddFormatPlainTextShort	Feature currency	Module API
CurrencyModule_AddFormatting	Feature currency	Module API
CUS_Create_Data_Files	features/cus/cus_db.mv	Customer Database
CUS_Store_Create	features/cus/cus_db.mv	Customer Database
CUS_Store_Delete	features/cus/cus_db.mv	Customer Database
Customer_Decrement_PriceGroupCount	features/cus/cus_db.mv	Customer Database
Customer_Decrement_PriceGroupCount_All	features/cus/cus_db.mv	Customer Database
Customer_Delete	features/cus/cus_db.mv	Customer Database
Customer_Delete_ID	features/cus/cus_db.mv	Customer Database
Customer_Increment_PriceGroupCount	features/cus/cus_db.mv	Customer Database
Customer_Insert	features/cus/cus_db.mv	Customer Database
Customer_Load_First	features/cus/cus_db.mv	Customer Database

Function	File Location/Feature	Module
Customer_Load_ID	features/cus/cus_db.mv	Customer Database
Customer_Load_Last	features/cus/cus_db.mv	Customer Database
Customer_Load_Login	features/cus/cus_db.mv	Customer Database
Customer_Load_Next	features/cus/cus_db.mv	Customer Database
Customer_Load_Previous	features/cus/cus_db.mv	Customer Database
Customer_Read	features/cus/cus_db.mv	Customer Database
Customer_Update	features/cus/cus_db.mv	Customer Database
CustomerEmail_Insert	features/cus/cus_db.mv	Customer Database
CustomerEmail_Load	features/cus/cus_db.mv	Customer Database
CustomerEmail_Read	features/cus/cus_db.mv	Customer Database
CustomerEmail_Update	features/cus/cus_db.mv	Customer Database
CustomerList_Load_All	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_AvailabilityGroup_All	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_AvailabilityGroup_Assigned	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_AvailabilityGroup _Unassigned	features/cus_db.mv	Customer Database
CustomerList_Load_Offset_EmailList_All	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_EmailList_Assigned	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_EmailList_Unassigned	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_PriceGroup_All	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_PriceGroup_Assigned	features/cus/cus_db.mv	Customer Database
CustomerList_Load_Offset_PriceGroup_Unassigned	features/cus/cus_db.mv	Customer Database
Customer_Validate	features/cus/cus_rt.mv	Customer Runtime
Data_Entry_Error	lib/util_public.mv	Helper Functions
DB_Close_PrivateKey	lib/dbapi.mv	DB Compatibility Layer
DB_Configuration_Save	lib/dbapi.mv	DB Compatibility Layer
DB_Open	lib/dbapi.mv	DB Compatibility Layer
DB_Open_Parameters	lib/dbapi.mv	DB Compatibility Layer
DB_Open_PrivateKey	lib/dbapi.mv	DB Compatibility Layer
DB_Open_PrivateKey_Parameters	lib/dbapi.mv	DB Compatibility Layer
DB_Supported_List	lib/dbapi.mv	DB Compatibility Layer
DB_Supported_Name	lib/dbapi.mv	DB Compatibility Layer
Decrypt_Order	lib/crypto_public.mv	Encrypt/Decrypt
Decrypt_OrderPayment	lib/crypto_public.mv	Encrypt/Decrypt
Decrypt_Payment	lib/crypto_public.mv	Encrypt/Decrypt
DesignerComponentModule_Export	Feature designer	Module API
DesignerComponentModule_ImportProvisionLines	Feature designer	Module API

Function	File Location/Feature	Module
DetermineSessionID	lib/util_public.mv	Helper Functions
DiscountModule_Capabilities	Feature discount	Module API
DiscountModule_Discount_Basket	Feature discount	Module API
DiscountModule_Field	Feature discount	Module API
DiscountModule_Fields	Feature discount	Module API
DiscountModule_Invalid	Feature discount	Module API
DiscountModule_PriceGroup_Delete	Feature discount	Module API
DiscountModule_Prompt	Feature discount	Module API
DiscountModule_Provision_Settings	Feature discount	Module API
DiscountModule_Update	Feature discount	Module API
DiscountModule_Validate	Feature discount	Module API
Domain_Delete	lib/dbeng/delete_domain.mv	Database API
Domain_Insert	lib/dbprim/domain.mv	Database API
Domain_Load	lib/dbprim/domain.mv	Database API
Domain_Read	lib/dbprim/domain.mv	Database API
Domain_Update	lib/dbprim/domain.mv	Database API
DomainKey_Generate	lib/dbeng/keys.mv	Database API
DomainKey_Insert	lib/dbprim/domainkeys.mv	Database API
DomainKey_Load_Type	lib/dbprim/domainkeys.mv	Database API
DomainKey_Read	lib/dbprim/domainkeys.mv	Database API
DomainKey_Update	lib/dbeng/keys.mv	Database API
Draw_FieldSet_Close	admin/ui.mv	Administrative UI
Draw_FieldSet_Open	admin/ui.mv	Administrative UI
Draw_ProgressBar	lib/util_public.mv	Helper Functions
Draw_ProgressBar_Begin	lib/util_public.mv	Helper Functions
Draw_ProgressBar_End	lib/util_public.mv	Helper Functions
Draw_ProgressBar_Update	lib/util_public.mv	Helper Functions
DrawButton_Reset	admin/wizardui.mv	Wizard UI
DrawButtons	admin/ui.mv	Administrative UI
DrawButtons_NextPrevious	admin/ui.mv	Administrative UI
DrawCheck	admin/ui.mv	Administrative UI
DrawCheckbox	lib/util_public.mv	Helper Functions
DrawCheckboxModAlert	lib/util_public.mv	Helper Functions
DrawCheck_Active	admin/ui.mv	Administrative UI
DrawCheck_Administrator	admin/ui.mv	Administrative UI
DrawCheck_Assigned	admin/ui.mv	Administrative UI
DrawCheck_CreateUsers	admin/ui.mv	Administrative UI
DrawCheck_Default	admin/ui.mv	Administrative UI

Function	File Location/Feature	Module
DrawCheck_Method	admin/ui.mv	Administrative UI
DrawCheck_Required	admin/ui.mv	Administrative UI
DrawCheck_Taxable	admin/ui.mv	Administrative UI
DrawImgButton_Active	admin/ui.mv	Administrative UI
DrawImgButton_Add	admin/ui.mv	Administrative UI
DrawImgButton_Add_Adjustment	admin/ui.mv	Administrative UI
DrawImgButton_Add_Affiliate	admin/ui.mv	Administrative UI
DrawImgButton_Add_Attribute	admin/ui.mv	Administrative UI
DrawImgButton_Add_Category	admin/ui.mv	Administrative UI
DrawImgButton_Add_Country	admin/ui.mv	Administrative UI
DrawImgButton_Add_CryptoKey	admin/ui.mv	Administrative UI
DrawImgButton_Add_Customer	admin/ui.mv	Administrative UI
DrawImgButton_Add_Extension	admin/ui.mv	Administrative UI
DrawImgButton_Add_Group	admin/ui.mv	Administrative UI
DrawImgButton_Add_Item	admin/ui.mv	Administrative UI
DrawImgButton_Add_List	admin/ui.mv	Administrative UI
DrawImgButton_Add_Method	admin/ui.mv	Administrative UI
DrawImgButton_Add_Module	admin/ui.mv	Administrative UI
DrawImgButton_Add_Option	admin/ui.mv	Administrative UI
DrawImgButton_Add_Page	admin/ui.mv	Administrative UI
DrawImgButton_Add_Payout	admin/ui.mv	Administrative UI
DrawImgButton_Add_Product	admin/ui.mv	Administrative UI
DrawImgButton_Add_Province	admin/ui.mv	Administrative UI
DrawImgButton_Add_Range	admin/ui.mv	Administrative UI
DrawImgButton_Add_Rate	admin/ui.mv	Administrative UI
DrawImgButton_Add_State	admin/ui.mv	Administrative UI
DrawImgButton_Add_Template	admin/ui.mv	Administrative UI
DrawImgButton_Add_Upsale	admin/ui.mv	Administrative UI
DrawImgButton_Add_User	admin/ui.mv	Administrative UI
DrawImgButton_All	admin/ui.mv	Administrative UI
DrawImgButton_Assigned	admin/ui.mv	Administrative UI
DrawImgButton_Available	admin/ui.mv	Administrative UI
DrawImgButton_Edit	admin/ui.mv	Administrative UI
DrawImgButton_EditHere	admin/ui.mv	Administrative UI
DrawImgButton_Export_Page	admin/ui.mv	Administrative UI
DrawImgButton_Help	admin/ui.mv	Administrative UI
DrawImgButton_Import_Page	admin/ui.mv	Administrative UI
DrawImgButton_Links	admin/ui.mv	Administrative UI

Function	File Location/Feature	Module
DrawlmgButton_Lock	admin/ui.mv	Administrative UI
DrawlmgButton_Lookup	admin/ui.mv	Administrative UI
DrawImgButton_NewX	admin/ui.mv	Administrative UI
DrawImgButton_Next	admin/ui.mv	Administrative UI
DrawlmgButton_Previous	admin/ui.mv	Administrative UI
DrawImgButton_Refresh	admin/ui.mv	Administrative UI
DrawlmgButton_Search	admin/ui.mv	Administrative UI
DrawlmgButton_Select	admin/ui.mv	Administrative UI
DrawlmgButton_Unassigned	admin/ui.mv	Administrative UI
DrawImgButton_Unbatched	admin/ui.mv	Administrative UI
DrawImgButton_Uncategorized	admin/ui.mv	Administrative UI
DrawImgButton_Upload	admin/ui.mv	Administrative UI
DrawImgButtonNew_All	admin/ui.mv	Administrative UI
DrawOption	lib/util_public.mv	Helper Functions
DrawOption_SelectOne	lib/util_public.mv	Helper Functions
DrawRadio	lib/util_public.mv	Helper Functions
DrawTabs	admin/ui.mv	Administrative UI
DrawTemplateTextArea	lib/util_public.mv	Helper Functions
DrawTemplateTextArea_SetModified	lib/util_public.mv	Helper Functions
Email_Add_AngleBrackets	lib/util_public.mv	Helper Functions
Email_Validate	lib/util_public.mv	Helper Functions
Encrypt_Payment	lib/crypto_public.mv	Encrypt/Decrypt
Encryption_Available	lib/crypto_public.mv	Encrypt/Decrypt
Encryption_Available	lib/util_public.mv	Helper Functions
Encryption_Decrement_ReferenceCount	lib/dbprim/encryption.mv	Database API
Encryption_Delete_ID	lib/dbprim/encryption.mv	Database API
Encryption_Increment_ReferenceCount	lib/dbprim/encryption.mv	Database API
Encryption_Insert	lib/dbprim/encryption.mv	Database API
Encryption_Key_Create	lib/crypto_public.mv	Encrypt/Decrypt
Encryption_Load_ID	lib/dbprim/encryption.mv	Database API
Encryption_Load_Prompt	lib/dbprim/encryption.mv	Database API
Encryption_Read	lib/dbprim/encryption.mv	Database API
Encryption_Update	lib/dbprim/encryption.mv	Database API
EncryptionList_Load_All	lib/dbprim/encryption.mv	Database API
EncryptionList_Load_Offset	lib/dbeng/encryption.mv	Database API
EncryptionList_Load_Offset_Order	lib/dbeng/encryption.mv	Database API
EndContent	admin/ui.mv	Administrative UI
EndScreen	admin/ui.mv	Administrative UI

Function	File Location/Feature	Module
EOF_Return	lib/dbeng/util.mv	Database API
Error	features/sbm/sbm_db.mv	Miva Submit
Error	lib/util_public.mv	Helper Functions
Error_ls_EOF	lib/dbeng/util.mv	Database API
Error_ListLoad_EOF	lib/dbeng/util.mv	Database API
Error_Load_EOF	lib/dbeng/util.mv	Database API
Error_Store_Closed	/merchant.mv	Shopping Interface
escape	features/tui/tui_mgr.mv	Template Manager
ExportModule_Export	Feature export	Module API
ExportModule_Screen	Feature export	Module API
ExportModule_Validate	Feature export	Module API
FieldError	admin/ui.mv	Administrative UI
FirstSparseArrayElement	lib/util_public.mv	Helper Functions
Format_Address	lib/util_public.mv	Helper Functions
Format_Date	lib/util_public.mv	Helper Functions
Format_RFC1123_DateTime	lib/util_public.mv	Helper Functions
Format_Time	lib/util_public.mv	Helper Functions
Format_Time_Short	lib/util_public.mv	Helper Functions
FulfillmentModule_ProcessOrder	Feature fulfill	Module API
GenerateAttachmentMIME	lib/util_public.mv	Helper Functions
GenerateBodyMIME	lib/util_public.mv	Helper Functions
GenerateBoundary	lib/util_public.mv	Helper Functions
Help_Button	admin/wizardui.mv	Wizard UI
Hex_Decode	lib/util_public.mv	Helper Functions
Hex_Encode	lib/util_public.mv	Helper Functions
HTML_Format_Marks	lib/util_public.mv	Helper Functions
ImportModule_Capabilities	Feature import	Module API
ImportModule_Delimited_Columns	Feature import	Module API
ImportModule_Delimited_Import_Begin	Feature import	Module API
ImportModule_Delimited_Import_End	Feature import	Module API
ImportModule_Delimited_Import_Record	Feature import	Module API
ImportModule_Import	Feature import	Module API
ImportModule_Persistent_Field	Feature import	Module API
ImportModule_Persistent_Fields	Feature import	Module API
ImportModule_Persistent_Invalid	Feature import	Module API
ImportModule_Persistent_Prompt	Feature import	Module API
ImportModule_Persistent_Provision	Feature import	Module API
ImportModule_Persistent_StatusFields	Feature import	Module API

Function	File Location/Feature	Module
ImportModule_Persistent_Update	Feature import	Module API
ImportModule_Persistent_Validate	Feature import	Module API
ImportModule_Raw_Import_Begin	Feature import	Module API
ImportModule_Raw_Import_Deserialize	Feature import	Module API
ImportModule_Raw_Import_End	Feature import	Module API
ImportModule_Raw_Import_Record	Feature import	Module API
ImportModule_Raw_Import_Serialize	Feature import	Module API
ImportModule_Screen	Feature import	Module API
ImportModule_Validate	Feature import	Module API
INV_Create_Data_Files	features/inv/inv_db.mv	Inventory Database
INV_Store_Create	features/inv/inv_db.mv	Inventory Database
INV_Store_Delete	features/inv/inv_db.mv	Inventory Database
Inventory_Adjust	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Adjust_LowLevel	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Adjust_Variant	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Adjust_VariantPricing	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Check_Available	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Check_Available_LowLevel	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Check_Available_Throw_Inventory_Limited	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Check_Available_Throw_Inventory_Out	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Check_Available_Variant	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Load_Variant	features/inv/inv_rt.mv	Inventory Runtime
Inventory_Tokenize_Message	features/inv/inv_rt.mv	Inventory Runtime
InventoryDefaultProductSettings	features/inv/inv_db.mv	Inventory Database
InventoryProductCount	features/inv/inv_db.mv	Inventory Database
InventoryProductCount_Adjust	features/inv/inv_db.mv	Inventory Database
InventoryProductCount_Delete	features/inv/inv_db.mv	Inventory Database
InventoryProductCount_Insert	features/inv/inv_db.mv	Inventory Database
InventoryProductCount_Read	features/inv/inv_db.mv	Inventory Database
InventoryProductCount_Update	features/inv/inv_db.mv	Inventory Database
InventoryProductSettings_Delete	features/inv/inv_db.mv	Inventory Database
InventoryProductSettings_Insert	features/inv/inv_db.mv	Inventory Database
InventoryProductSettings_Load	features/inv/inv_db.mv	Inventory Database
InventoryProductSettings_Read	features/inv/inv_db.mv	Inventory Database
InventoryProductSettings_Update	features/inv/inv_db.mv	Inventory Database
InventorySettings_Insert	features/inv/inv_db.mv	Inventory Database
InventorySettings_Load	features/inv/inv_db.mv	Inventory Database
InventorySettings_Read	features/inv/inv_db.mv	Inventory Database

Function	File Location/Feature	Module
InventorySettings_Update	features/inv/inv_db.mv	Inventory Database
Item_Decrement_ReferenceCount	features/tui/tui db.mv	Template Database
Item_Delete_ID	features/tui/tui_db.mv	Template Database
Item_Increment_ReferenceCount	features/tui/tui_db.mv	Template Database
Item_Insert	features/tui/tui db.mv	Template Database
Item_Load_Code	features/tui/tui_db.mv	Template Database
Item_Load_ID	features/tui/tui_db.mv	Template Database
Item_Load_Module	features/tui/tui_db.mv	Template Database
Item_Load_PageList	features/tui/tui_db.mv	Template Database
Item_Read	features/tui/tui_db.mv	Template Database
Item_Update	features/tui/tui_db.mv	Template Database
ItemExtension_Delete_All_Item	features/tui/tui_db.mv	Template Database
ItemExtension_Delete_All_Module	features/tui/tui_db.mv	Template Database
ItemExtension_Delete_ID	features/tui/tui_db.mv	Template Database
ItemExtension_Insert	features/tui/tui_db.mv	Template Database
ItemExtension_Load_ID	features/tui/tui_db.mv	Template Database  Template Database
ItemExtension_Load_ItemModule	features/tui/tui_db.mv	Template Database  Template Database
ItemExtension_Read	features/tui/tui_db.mv	Template Database  Template Database
ItemExtension_Update_Order	features/tui/tui_db.mv	Template Database  Template Database
ItemExtensionList_Load_Item	features/tui/tui_db.mv	Template Database  Template Database
ItemExtensionModuleList_Load_Page_Render	features/tui/tui_db.mv	Template Database
ItemList_Load_All	features/tui/tui_db.mv	
ItemList_Load_Codes	features/tui/tui_db.mv	Template Database
ItemList_Load_Module	features/tui/tui_db.mv	Template Database
ItemList_Load_Offset		Template Database
ItemList_Load_Offset_Page_All	features/tui/tui_db.mv features/tui/tui db.mv	Template Database
ItemList_Load_Offset_Page_Assigned		Template Database
ItemList_Load_Offset_Page_Unassigned	features/tui/tui_db.mv features/tui/tui db.mv	Template Database Template Database
ItemModuleList_Load_Page	features/tui/tui_db.mv features/tui/tui db.mv	Template Database
ItemModuleList_Load_Page_Active	_	Template Database
ItemModuleList_Load_Page_Render	features/tui/tui_db.mv	Template Database
ItemModuleList_Load_Page_Store	features/tui/tui_db.mv	Template Database
ItemModuleList_Load_Page_Store_Active  JavaScript_Set_A_Variable	features/tui/tui_db.mv	Template Database
	admin/ui.mv	Administrative UI
JavaScript_SetVariables	admin/ui.mv	Administrative UI
JavaScriptEncode	admin/ui.mv	Administrative UI
JavaScriptEncode_NoEntities	admin/ui.mv	Administrative UI
LaunchPadButton_Insert	lib/dbprim/launchpad.mv	Database API

Function	File Location/Feature	Module
LaunchPadButton_Load_ID	lib/dbprim/launchpad.mv	Database API
LaunchPadButton_Read	lib/dbprim/launchpad.mv	Database API
LaunchPadButton_Update	lib/dbprim/launchpad.mv	Database API
LaunchPadButtonList_Load_All	lib/dbprim/launchpad.mv	Database API
LaunchPadButtonList_Load_Default	lib/dbprim/launchpad.mv	Database API
LaunchPadConfig_Insert	lib/dbprim/launchpad.mv	Database API
LaunchPadConfig_Load	lib/dbprim/launchpad.mv	Database API
LaunchPadConfig_Read	lib/dbprim/launchpad.mv	Database API
LaunchPadConfig_Update	lib/dbprim/launchpad.mv	Database API
ListLoad_EOF_Return	lib/dbeng/util.mv	Database API
LogModule_Action	Feature log	Module API
LogModule_Screen	Feature log	Module API
LogModule_UIException	Feature log	Module API
ManagedTemplate_Delete_History	features/tui/tui_db.mv	Template Database
ManagedTemplate_Delete_ID	features/tui/tui_db.mv	Template Database
ManagedTemplate_Insert	features/tui/tui_db.mv	Template Database
ManagedTemplate_Load_Filename	features/tui/tui_db.mv	Template Database
ManagedTemplate_Load_ID	features/tui/tui_db.mv	Template Database
ManagedTemplate_Read	features/tui/tui_db.mv	Template Database
ManagedTemplate_Update	features/tui/tui_db.mv	Template Database
ManagedTemplateList_Load_All	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Delete_All_Template	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Delete_ID	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Insert	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Load_ID	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Load_Template_Current	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Read	features/tui/tui_db.mv	Template Database
ManagedTemplateVersion_Update	features/tui/tui_db.mv	Template Database
ManagedTemplateVersionList_Load_Template	features/tui/tui_db.mv	Template Database
Merchant	/merchant.mv	Shopping Interface
Merchant_Actions	/merchant.mv	Shopping Interface
Merchant_Screens	/merchant.mv	Shopping Interface
Message_Error	lib/util_public.mv	Helper Functions
Message_Information	lib/util_public.mv	Helper Functions
Module_Affiliate_BatchEdit_Content	Feature vis_affilbe	Module API
Module_Affiliate_BatchEdit_Delete	Feature vis_affilbe	Module API
Module_Affiliate_BatchEdit_Head	Feature vis_affilbe	Module API
Module_Affiliate_BatchEdit_Tabs	Feature vis_affilbe	Module API

Function	File Location/Feature	Module
Module_Affiliate_BatchEdit_Update	Feature vis_affilbe	Module API
Module_Affiliate_BatchEdit_Validate	Feature vis_affilbe	Module API
Module_Affiliate_Content	Feature vis_affil	Module API
Module_Affiliate_Delete	Feature vis_affil	Module API
Module_Affiliate_Head	Feature vis_affil	Module API
Module_Affiliate_Insert	Feature vis_affil	Module API
Module_Affiliate_Tabs	Feature vis_affil	Module API
Module_Affiliate_Update	Feature vis_affil	Module API
Module_Affiliate_Validate	Feature vis_affil	Module API
Module_Category_BatchEdit_Content	Feature vis_categorybe	Module API
Module_Category_BatchEdit_Delete	Feature vis_categorybe	Module API
Module_Category_BatchEdit_Head	Feature vis_categorybe	Module API
Module_Category_BatchEdit_Tabs	Feature vis_categorybe	Module API
Module_Category_BatchEdit_Update	Feature vis_categorybe	Module API
Module_Category_BatchEdit_Validate	Feature vis_categorybe	Module API
Module_Category_Content	Feature vis_category	Module API
Module_Category_Delete	Feature vis_category	Module API
Module_Category_Field_Name	Feature fields_cat	Module API
Module_Category_Field_Value	Feature fields_cat	Module API
Module_Category_Fields	Feature fields_cat	Module API
Module_Category_Fields_Mapped	Feature fields_cat_map	Module API
Module_Category_Head	Feature vis_category	Module API
Module_Category_Insert	Feature vis_category	Module API
Module_Category_Set_Field	Feature fields_cat	Module API
Module_Category_Tabs	Feature vis_category	Module API
Module_Category_Update	Feature vis_category	Module API
Module_Category_Validate	Feature vis_category	Module API
Module_Cleanup_Store	Feature cleanup_store	Module API
Module_Clientside	Feature clientside	Module API
Module_Customer_BatchEdit_Content	Feature vis_custbe	Module API
Module_Customer_BatchEdit_Delete	Feature vis_custbe	Module API
Module_Customer_BatchEdit_Head	Feature vis_custbe	Module API
Module_Customer_BatchEdit_Tabs	Feature vis_custbe	Module API
Module_Customer_BatchEdit_Update	Feature vis_custbe	Module API
Module_Customer_BatchEdit_Validate	Feature vis_custbe	Module API
Module_Customer_Content	Feature vis_cust	Module API
Module_Customer_Delete	Feature vis_cust	Module API
Module_Customer_Field_Name	Feature fields_cust	Module API

Function	File Location/Feature	Module
Module_Customer_Field_Value	Feature fields_cust	Module API
Module_Customer_Fields	Feature fields_cust	Module API
Module_Customer_Head	Feature vis_cust	Module API
Module_Customer_Insert	Feature vis_cust	Module API
Module_Customer_Runtime_ChangeEmailAddress	Feature custrt	Module API
Module_Customer_Runtime_ChangePassword	Feature custrt	Module API
Module_Customer_Runtime_Insert	Feature custrt	Module API
Module_Customer_Runtime_Update	Feature custrt	Module API
Module_Customer_Runtime_Validate	Feature custrt	Module API
Module_Customer_Set_Field	Feature fields_cust	Module API
Module_Customer_Tabs	Feature vis_cust	Module API
Module_Customer_Update	Feature vis_cust	Module API
Module_Customer_Validate	Feature vis_cust	Module API
Module_Description	All Modules	Module API
Module_Domain_Content	Feature vis_domain	Module API
Module_Domain_Head	Feature vis_domain	Module API
Module_Domain_Tabs	Feature vis_domain	Module API
Module_Domain_Update	Feature vis_domain	Module API
Module_Domain_Validate	Feature vis_domain	Module API
Module_External_Requirements_Met	Feature externalreq	Module API
Module_Fulfillment_Content	Feature vis_fulfill	Module API
Module_Fulfillment_Head	Feature vis_fulfill	Module API
Module_Fulfillment_Tabs	Feature vis_fulfill	Module API
Module_Fulfillment_Update	Feature vis_fulfill	Module API
Module_Fulfillment_Validate	Feature vis_fulfill	Module API
Module_Install	Feature data_domain	Module API
Module_Install_Store	Feature data_store	Module API
Module_ls_Wizardable	Feature vis_wizard	Module API
Module_JSON	Feature json	Module API
Module_Logging_Content	Feature vis_log	Module API
Module_Logging_Head	Feature vis_log	Module API
Module_Logging_Tabs	Feature vis_log	Module API
Module_Logging_Update	Feature vis_log	Module API
Module_Logging_Validate	Feature vis_log	Module API
Module_Notify_Category_Delete	Feature not_cat	Module API
Module_Notify_Category_Insert	Feature not_cat	Module API
Module_Notify_Category_Update	Feature not_cat	Module API
Module_Notify_Customer_Delete	Feature not_cust	Module API

Function	File Location/Feature	Module
Module_Notify_Customer_Insert	Feature not_cust	Module API
Module_Notify_Customer_Update	Feature not_cust	Module API
Module_Notify_GiftCertificate_Created	Feature not_giftcert	Module API
Module_Notify_GiftCertificate_Deleted	Feature not_giftcert	Module API
Module_Notify_GiftCertificate_Redeemed	Feature not_giftcert	Module API
Module_Notify_GiftCertificate_Updated	Feature not_giftcert	Module API
Module_Notify_Image_Delete	Feature not_image	Module API
Module_Notify_Image_Insert	Feature not_image	Module API
Module_Notify_Order_BatchChange	Feature not_order	Module API
Module_Notify_Order_StatusChange	Feature not_order	Module API
Module_Notify_OrderItem_Delete	Feature not_orderitem	Module API
Module_Notify_OrderItem_StatusChange	Feature not_orderitem	Module API
Module_Notify_OrderReturn_StatusChange	Feature not_orderreturn	Module API
Module_Notify_OrderShipment_StatusChange	Feature not_ordershpmnt	Module API
Module_Notify_Product_Delete	Feature not_prod	Module API
Module_Notify_Product_Insert	Feature not_prod	Module API
Module_Notify_Product_Update	Feature not_prod	Module API
Module_Notify_SEOSettings	Feature not_seo	Module API
Module_Notify_StandardFields	Feature not_fields	Module API
Module_Order_Content	Feature vis_order	Module API
Module_Order_Delete	Feature vis_order	Module API
Module_Order_Delete_Order	Feature vis_order	Module API
Module_Order_Head	Feature vis_order	Module API
Module_Order_Tabs	Feature vis_order	Module API
Module_Order_Update	Feature vis_order	Module API
Module_Order_Validate	Feature vis_order	Module API
Module_PackagingRules_Content	Feature vis_pkgrules	Module API
Module_PackagingRules_Head	Feature vis_pkgrules	Module API
Module_PackagingRules_Tabs	Feature vis_pkgrules	Module API
Module_PackagingRules_Update	Feature vis_pkgrules	Module API
Module_PackagingRules_Validate	Feature vis_pkgrules	Module API
Module_Payment_Content	Feature vis_payment	Module API
Module_Payment_Head	Feature vis_payment	Module API
Module_Payment_Tabs	Feature vis_payment	Module API
Module_Payment_Update	Feature vis_payment	Module API
Module_Payment_Validate	Feature vis_payment	Module API
Module_Product_BatchEdit_Content	Feature vis_productbe	Module API
Module_Product_BatchEdit_Delete	Feature vis_productbe	Module API

Function	File Location/Feature	Module
Module_Product_BatchEdit_Head	Feature vis_productbe	Module API
Module_Product_BatchEdit_Tabs	Feature vis_productbe	Module API
Module_Product_BatchEdit_Update	Feature vis_productbe	Module API
Module_Product_BatchEdit_Validate	Feature vis_productbe	Module API
Module_Product_Content	Feature vis_product	Module API
Module_Product_Delete	Feature vis_product	Module API
Module_Product_Field_Name	Feature fields_prod	Module API
Module_Product_Field_Value	Feature fields_prod	Module API
Module_Product_Fields	Feature fields_prod	Module API
Module_Product_Fields_Mapped	Feature fields_prod_map	Module API
Module_Product_Head	Feature vis_product	Module API
Module_Product_Insert	Feature vis_product	Module API
Module_Product_Set_Field	Feature fields_prod	Module API
Module_Product_Tabs	Feature vis_product	Module API
Module_Product_Update	Feature vis_product	Module API
Module_Product_Validate	Feature vis_product	Module API
Module_Provision_Store	Feature provision_store	Module API
Module_Shipping_Content	Feature vis_shipping	Module API
Module_Shipping_Head	Feature vis_shipping	Module API
Module_Shipping_Tabs	Feature vis_shipping	Module API
Module_Shipping_Update	Feature vis_shipping	Module API
Module_Shipping_Validate	Feature vis_shipping	Module API
Module_Store_Content	Feature vis_store	Module API
Module_Store_Head	Feature vis_store	Module API
Module_Store_Tabs	Feature vis_store	Module API
Module_Store_Update	Feature vis_store	Module API
Module_Store_Validate	Feature vis_store	Module API
Module_System_Content	Feature vis_system	Module API
Module_System_Head	Feature vis_system	Module API
Module_System_Tabs	Feature vis_system	Module API
Module_System_Update	Feature vis_system	Module API
Module_System_Validate	Feature vis_system	Module API
Module_Uninstall	Feature data_domain	Module API
Module_Uninstall_Store	Feature data_store	Module API
Module_Upgrade	Feature data_domain	Module API
Module_Upgrade_Store	Feature data_store	Module API
Module_Utility_Content	Feature vis_util	Module API
Module_Utility_Head	Feature vis_util	Module API

Function	File Location/Feature	Module
Module_Utility_Tabs	Feature vis_util	Module API
Module_Utility_Update	Feature vis_util	Module API
Module_Utility_Validate	Feature vis_util	Module API
Module_Wizard_Action	Feature vis_wizard	Module API
Module_Wizard_Content	Feature vis_wizard	Module API
Module_Wizard_Summary_Field	Feature vis_wizard	Module API
Module_Wizard_Summary_Fields	Feature vis_wizard	Module API
Module_Wizard_Summary_Prompt	Feature vis_wizard	Module API
Module_Wizard_Validate	Feature vis_wizard	Module API
Module_Wizard_Validate_Step	Feature vis_wizard	Module API
name_suffix	features/tui/tui_mgr.mv	Template Manager
NextSparseArrayElement	lib/util_public.mv	Helper Functions
OpenBasket	lib/util_public.mv	Helper Functions
OpenBasket_LowLevel	lib/util_public.mv	Helper Functions
OpenDataFiles	lib/dbeng/open.mv	Database API
Option_Delete	lib/dbeng/attributes.mv	Database API
Option_Delete_All_Attribute	lib/dbprim/options.mv	Database API
Option_Delete_All_Product	lib/dbprim/options.mv	Database API
Option_Delete_ID	lib/dbprim/options.mv	Database API
Option_Insert	lib/dbprim/options.mv	Database API
Option_Load_Code	lib/dbprim/options.mv	Database API
Option_Load_ID	lib/dbprim/options.mv	Database API
Option_Read	lib/dbprim/options.mv	Database API
Option_Sort_Swap	lib/dbeng/sort.mv	Database API
Option_Update	lib/dbprim/options.mv	Database API
Option_Update_DisplayOrder	lib/dbprim/options.mv	Database API
OptionList_Load_Attribute	lib/dbprim/options.mv	Database API
OptionList_Load_ProductVariant_Possible	lib/dbeng/productvariants.mv	Database API
Order_Change_Shipping	lib/dbeng/orders.mv	Database API
Order_Count_Batch	lib/dbprim/orders.mv	Database API
Order_Create	lib/dbeng/order_compat.mv	Database API
Order_Create_Empty	lib/dbeng/orders.mv	Database API
Order_Create_LowLevel	lib/dbeng/orders.mv	Database API
Order_Delete	lib/dbeng/orders.mv	Database API
Order_Delete_ID	lib/dbprim/orders.mv	Database API
Order_Insert	lib/dbprim/orders.mv	Database API
Order_Load_Customer	lib/dbprim/orders.mv	Database API
Order_Load_First	lib/dbeng/order_compat.mv	Database API

Function	File Location/Feature	Module
Order_Load_ID	lib/dbeng/order_compat.mv	Database API
Order_Load_Last	lib/dbeng/order_compat.mv	Database API
Order_Load_Next	lib/dbeng/order_compat.mv	Database API
Order_Load_Previous	lib/dbeng/order_compat.mv	Database API
Order_Read	lib/dbeng/order_compat.mv	Database API
Order_Update_Batch	lib/dbprim/orders.mv	Database API
Order_Update_Customer_Information	lib/dbprim/orders.mv	Database API
Order_Update_Payment	lib/dbeng/order_compat.mv	Database API
Order_Update_PaymentTotals	lib/dbeng/orders.mv	Database API
Order_Update_Processed	lib/dbeng/order_compat.mv	Database API
Order_Update_Shipping	lib/dbprim/orders.mv	Database API
Order_Update_Status	lib/dbeng/orders.mv	Database API
Order_Update_Total	lib/dbprim/orders.mv	Database API
Order_Validate	/merchant.mv	Shopping Interface
OrderCharge_Copy_Basket	lib/dbeng/orders.mv	Database API
OrderCharge_Delete_All_Order	lib/dbprim/ordercharges.mv	Database API
OrderCharge_Delete_All_Type	lib/dbprim/ordercharges.mv	Database API
OrderCharge_Insert	lib/dbprim/ordercharges.mv	Database API
OrderCharge_Read	lib/dbprim/ordercharges.mv	Database API
OrderCharge_Total	lib/dbeng/orders.mv	Database API
OrderCharge_Total_Type	lib/dbprim/ordercharges.mv	Database API
OrderCharge_Update_Amount	lib/dbprim/ordercharges.mv	Database API
OrderChargeList_Load_Order	lib/dbprim/ordercharges.mv	Database API
OrderChargeList_Load_Type	lib/dbprim/ordercharges.mv	Database API
OrderItem_Copy_Basket	lib/dbeng/orders.mv	Database API
OrderItem_Copy_Basket_WithInventory	lib/dbeng/orders.mv	Database API
OrderItem_Count_Return	lib/dbprim/orderitems.mv	Database API
OrderItem_Count_Shipment	lib/dbprim/orderitems.mv	Database API
OrderItem_Delete	lib/dbprim/orderitems.mv	Database API
OrderItem_Delete_All_Order	lib/dbprim/orderitems.mv	Database API
OrderItem_Insert	lib/dbprim/orderitems.mv	Database API
OrderItem_Insert_LowLevel	lib/dbprim/orderitems.mv	Database API
OrderItem_Load_Line	lib/dbprim/orderitems.mv	Database API
OrderItem_NotifyList_Add	lib/dbeng/orders.mv	Database API
OrderItem_Read	lib/dbprim/orderitems.mv	Database API
OrderItem_Update	lib/dbprim/orderitems.mv	Database API
OrderItem_Update_Status_LowLevel	lib/dbprim/orderitems.mv	Database API
OrderItem_Update_Status_Return	lib/dbeng/orders.mv	Database API

Function	File Location/Feature	Module
OrderItem_Update_Status_Shipment	lib/dbeng/orders.mv	Database API
OrderItemList_BackOrder	lib/dbeng/orders.mv	Database API
OrderItemList_BackOrder_Dates	lib/dbeng/orders.mv	Database API
OrderItemList_Cancel	lib/dbeng/orders.mv	Database API
OrderItemList_CreateReturn	lib/dbeng/orders.mv	Database API
OrderItemList_CreateShipment	lib/dbeng/orders.mv	Database API
OrderItemList_CreateShipment_LowLevel	lib/dbeng/orders.mv	Database API
OrderItemList_Delete	lib/dbeng/orders.mv	Database API
OrderItemList_Load_Order	lib/dbprim/orderitems.mv	Database API
OrderItemList_Load_ProductID	lib/dbprim/orderitems.mv	Database API
OrderItemList_Load_Return	lib/dbprim/orderitems.mv	Database API
OrderItemList_Load_Shipment	lib/dbprim/orderitems.mv	Database API
OrderItemList_Load_Status	lib/dbprim/orderitems.mv	Database API
OrderItemList_Received	lib/dbeng/orders.mv	Database API
OrderItemList_RemoveFromReturns	lib/dbeng/orders.mv	Database API
OrderItemList_RemoveFromShipments	lib/dbeng/orders.mv	Database API
OrderList_Load_Batch	lib/dbeng/order_compat.mv	Database API
OrderList_Load_Batch_Unprocessed	lib/dbeng/order_compat.mv	Database API
OrderList_Load_Customer	lib/dbprim/orders.mv	Database API
OrderList_Load_Customer_Offset	lib/dbeng/orders.mv	Database API
OrderList_Load_Offset	lib/dbeng/order_compat.mv	Database API
OrderList_Load_Offset_Uncategorized	lib/dbeng/order_compat.mv	Database API
OrderMinimumsMet	lib/util_public.mv	Helper Functions
OrderOption_Copy_Basket	lib/dbeng/orders.mv	Database API
OrderOption_Delete_All_Line	lib/dbprim/orderoptions.mv	Database API
OrderOption_Delete_All_Order	lib/dbprim/orderoptions.mv	Database API
OrderOption_Insert	lib/dbprim/orderoptions.mv	Database API
OrderOption_Read	lib/dbprim/orderoptions.mv	Database API
OrderOption_Total_Line	lib/dbeng/orders.mv	Database API
OrderOptionList_Load_Line	lib/dbprim/orderoptions.mv	Database API
OrderPayment_Create	lib/dbeng/orders.mv	Database API
OrderPayment_Delete	lib/dbeng/orders.mv	Database API
OrderPayment_Delete_All_Order	lib/dbeng/orders.mv	Database API
OrderPayment_Insert	lib/dbprim/orderpayments.mv	Database API
OrderPayment_Load_ID	lib/dbprim/orderpayments.mv	Database API
OrderPayment_Read	lib/dbprim/orderpayments.mv	Database API
OrderPayment_Update	lib/dbeng/orders.mv	Database API
OrderPayment_Update_Amounts	lib/dbprim/orderpayments.mv	Database API

Function	File Location/Feature	Module
OrderPayment_Update_LowLevel	lib/dbprim/orderpayments.mv	Database API
OrderPaymentList_Load_Order	lib/dbprim/orderpayments.mv	Database API
OrderPaymentList_Load_Order_Authorization	lib/dbprim/orderpayments.mv	Database API
OrderPaymentList_Load_Order_Capture	lib/dbprim/orderpayments.mv	Database API
OrderPaymentList_Load_Order_Module_Authorization	lib/dbprim/orderpayments.mv	Database API
OrderReturn_Delete	lib/dbprim/orderreturns.mv	Database API
OrderReturn_Delete_All_Order	lib/dbprim/orderreturns.mv	Database API
OrderReturn_Insert	lib/dbprim/orderreturns.mv	Database API
OrderReturn_Insert_LowLevel	lib/dbprim/orderreturns.mv	Database API
OrderReturn_Load_ID	lib/dbprim/orderreturns.mv	Database API
OrderReturn_NotifyList_Add	lib/dbeng/orders.mv	Database API
OrderReturn_Read	lib/dbprim/orderreturns.mv	Database API
OrderReturn_Update_Status	lib/dbeng/orders.mv	Database API
OrderReturn_Update_Status_LowLevel	lib/dbprim/orderreturns.mv	Database API
OrderReturnList_Update_Status	lib/dbeng/orders.mv	Database API
OrderShipment_Delete	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Delete_All_Order	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Insert	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Insert_LowLevel	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Load_Code	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Load_ID	lib/dbprim/ordershipments.mv	Database API
OrderShipment_NotifyList_Add	lib/dbeng/orders.mv	Database API
OrderShipment_Read	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Update_Label	lib/dbprim/ordershipments.mv	Database API
OrderShipment_Update_Status	lib/dbeng/orders.mv	Database API
OrderShipment_Update_Status_LowLevel	lib/dbprim/ordershipments.mv	Database API
OrderShipmentList_Load_Order	lib/dbprim/ordershipments.mv	Database API
OrderShipmentList_Update_Status	lib/dbeng/orders.mv	Database API
OutputCookies	lib/util_public.mv	Helper Functions
Page_Delete_ID	features/tui/tui_db.mv	Template Database
Page_Insert	features/tui/tui_db.mv	Template Database
Page_Load_Code	features/tui/tui_db.mv	Template Database
Page_Load_First	features/tui/tui_db.mv	Template Database
Page_Load_Last	features/tui/tui_db.mv	Template Database
Page_Load_Next	features/tui/tui_db.mv	Template Database
Page_Load_Previous	features/tui/tui_db.mv	Template Database
Page_Read	features/tui/tui_db.mv	Template Database
Page_Update	features/tui/tui_db.mv	Template Database

Function	File Location/Feature	Module
PageList_Load_All	features/tui/tui_db.mv	Template Database
PageList_Load_Item	features/tui/tui_db.mv	Template Database
PageList_Load_Offset	features/tui/tui_db.mv	Template Database
PageList_Load_Offset_Item_All	features/tui/tui_db.mv	Template Database
PageList_Load_Offset_Item_Assigned	features/tui/tui_db.mv	Template Database
PageList_Load_Offset_Item_Unassigned	features/tui/tui_db.mv	Template Database
PageList_Load_UI	features/tui/tui_db.mv	Template Database
PageXItem_Delete_All_Item_LowLevel	features/tui/tui_db.mv	Template Database
PageXItem_Delete_All_Page_LowLevel	features/tui/tui_db.mv	Template Database
PageXitem_Delete_LowLevel	features/tui/tui_db.mv	Template Database
PageXItem_Insert_LowLevel	features/tui/tui_db.mv	Template Database
PageXitem_Load	features/tui/tui_db.mv	Template Database
PageXItem_Read	features/tui/tui_db.mv	Template Database
ParseCookies	lib/util_public.mv	Helper Functions
PaymentModule_Authorize	Feature payment	Module API
PaymentModule_LeftNavigation	Feature payment	Module API
PaymentModule_Manipulate_Shipping	Feature payment	Module API
PaymentModule_Order_Authorize	Feature payment	Module API
PaymentModule_Order_Authorize_Field	Feature payment	Module API
PaymentModule_Order_Authorize_Fields	Feature payment	Module API
PaymentModule_Order_Authorize_Hide_Additional _Fields	Feature payment	Module API
PaymentModule_Order_Authorize_Invalid	Feature payment	Module API
PaymentModule_Order_Authorize_Methods	Feature payment	Module API
PaymentModule_Order_Authorize_Prompt	Feature payment	Module API
PaymentModule_Order_Authorize_Validate	Feature payment	Module API
PaymentModule_Order_Content	Feature payment	Module API
PaymentModule_Order_Delete	Feature payment	Module API
PaymentModule_Order_Head	Feature payment	Module API
PaymentModule_OrderPayment_Capture	Feature payment	Module API
PaymentModule_OrderPayment_Refund	Feature payment	Module API
PaymentModule_OrderPayment_VOID	Feature payment	Module API
PaymentModule_Order_Tabs	Feature payment	Module API
PaymentModule_Order_Update	Feature payment	Module API
PaymentModule_Order_Validate	Feature payment	Module API
PaymentModule_Payment_Description	Feature payment	Module API
PaymentModule_Payment_Field	Feature payment	Module API
PaymentModule_Payment_Fields	Feature payment	Module API

Function	File Location/Feature	Module
PaymentModule_Payment_Hide_Additional_Fields	Feature payment	Module API
PaymentModule_Payment_Invalid	Feature payment	Module API
PaymentModule_Payment_Message	Feature payment	Module API
PaymentModule_Payment_Methods	Feature payment	Module API
PaymentModule_Payment_Prompt	Feature payment	Module API
PaymentModule_Payment_URL	Feature payment	Module API
PaymentModule_Payment_Validate	Feature payment	Module API
PaymentModule_Process	Feature payment	Module API
PaymentModule_Report_Description	Feature payment	Module API
PaymentModule_Report_Fields	Feature payment	Module API
PaymentModule_Report_Label	Feature payment	Module API
PaymentModule_Report_Value	Feature payment	Module API
PaymentModule_Runtime_Authorize	Feature payment	Module API
PGR_Create_Data_Files	features/pgr/pgr_db.mv	Price Group
PGR_Store_Create	features/pgr/pgr_db.mv	Price Group
PGR_Store_Delete	features/pgr/pgr_db.mv	Price Group
Phone_Validate	lib/util_public.mv	Helper Functions
PreviousSparseArrayElement	lib/util_public.mv	Helper Functions
PriceGroup_Delete	features/pgr/pgr_db.mv	Price Group
PriceGroup_Delete_ID	features/pgr/pgr_db.mv	Price Group
PriceGroup_Insert	features/pgr/pgr_db.mv	Price Group
PriceGroup_Load_ID	features/pgr/pgr_db.mv	Price Group
PriceGroup_Load_Name	features/pgr/pgr_db.mv	Price Group
PriceGroup_Read	features/pgr/pgr_db.mv	Price Group
PriceGroup_Update	features/pgr/pgr_db.mv	Price Group
PriceGroupList_Load_All	features/pgr/pgr_db.mv	Price Group
PriceGroupList_Load_Offset	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Delete	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Delete_All_Customer	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Delete_All_PriceGroup	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Delete_LowLevel	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Insert	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Insert_LowLevel	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Load	features/pgr/pgr_db.mv	Price Group
PriceGroupXCustomer_Read	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Delete	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Delete_All_PriceGroup	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Delete_All_Product	features/pgr/pgr_db.mv	Price Group

Function	File Location/Feature	Module
PriceGroupXProduct_Delete_LowLevel	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Insert	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Insert_LowLevel	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Load	features/pgr/pgr_db.mv	Price Group
PriceGroupXProduct_Read	features/pgr/pgr_db.mv	Price Group
PrivateKey_Delete_ID	lib/dbprim/encryption.mv	Database API
PrivateKey_Insert	lib/dbprim/encryption.mv	Database API
PrivateKey_Load_ID	lib/dbprim/encryption.mv	Database API
PrivateKey_Read	lib/dbprim/encryption.mv	Database API
ProdStat_Count	features/sta/sta_db.mv	Statistics
ProdStats_Add_Counts	features/sta/sta_db.mv	Statistics
ProdStats_Insert	features/sta/sta_db.mv	Statistics
ProdStats_Load_Product	features/sta/sta_db.mv	Statistics
ProdStats_Read	features/sta/sta_db.mv	Statistics
ProdStats_Update	features/sta/sta_db.mv	Statistics
ProdStatsList_Load_Max	features/sta/sta_db.mv	Statistics
Product_Count	lib/dbprim/products.mv	Database API
Product_Decrement_AvailabilityGroupCount	lib/dbprim/products.mv	Database API
Product_Decrement_AvailabilityGroupCount_All	lib/dbeng/products.mv	Database API
Product_Decrement_CategoryCount	lib/dbprim/products.mv	Database API
Product_Decrement_PriceGroupCount	lib/dbprim/products.mv	Database API
Product_Decrement_PriceGroupCount_All	lib/dbeng/products.mv	Database API
Product_Delete	lib/dbeng/products.mv	Database API
Product_Delete_ID	lib/dbprim/products.mv	Database API
Product_Increment_AvailabilityGroupCount	lib/dbprim/products.mv	Database API
Product_Increment_CategoryCount	lib/dbprim/products.mv	Database API
Product_Increment_PriceGroupCount	lib/dbprim/products.mv	Database API
Product_Insert	lib/dbprim/products.mv	Database API
Product_Load_Code	lib/dbprim/products.mv	Database API
Product_Load_Code_WithRuntimeInventory	lib/dbeng/products.mv	Database API
Product_Load_DisplayOrder	lib/dbprim/products.mv	Database API
Product_Load_First	lib/dbeng/products.mv	Database API
Product_Load_ID	lib/dbprim/products.mv	Database API
Product_Load_Last	lib/dbeng/products.mv	Database API
Product_Load_Next	lib/dbeng/products.mv	Database API
Product_Load_Previous	lib/dbeng/products.mv	Database API
Product_Read	lib/dbprim/products.mv	Database API
Product_Sort_All	lib/dbeng/sort.mv	Database API

Function	File Location/Feature	Module
Product_Sort_Swap	lib/dbeng/sort.mv	Database API
Product_Update	lib/dbprim/products.mv	Database API
Product_Update_DisplayOrder	lib/dbprim/products.mv	Database API
ProductAttributeList_Update_Offsets	lib/dbeng/attributes.mv	Database API
ProductAttributeList_Update_Offsets_PastEnd	lib/dbeng/attributes.mv	Database API
ProductAttributeOptionList_Update_Offsets	lib/dbeng/attributes.mv	Database API
ProductAttributeOptionList_Update_Offsets_PastEnd	lib/dbeng/attributes.mv	Database API
ProductKit_Delete_All_AttributeTemplateAttribute	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_All_AttributeTemplateOption	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_All_Part	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_All_Product	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_All_Product_Attribute	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_All_Product_Option	lib/dbprim/productkits.mv	Database API
ProductKit_Delete_Option	lib/dbprim/productkits.mv	Database API
ProductKit_Generate_Variants	lib/dbeng/productkits.mv	Database API
ProductKit_Generate_Variants_Recursive	lib/dbeng/productkits.mv	Database API
ProductKit_Insert	lib/dbprim/productkits.mv	Database API
ProductList_Load_All	lib/dbprim/products.mv	Database API
ProductList_Load_Offset	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Active	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_AvailabilityGroup_All	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_AvailabilityGroup_Assigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_AvailabilityGroup_Unassigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Category_All	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Category_Assigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Category_Unassigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_PriceGroup_All	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_PriceGroup_Assigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_PriceGroup_Unassigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_RelatedProducts_All	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Uncategorized	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Upsell_All	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Upsell_Assigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_Upsell_Unassigned	lib/dbeng/products.mv	Database API
ProductList_Load_Offset_UpsellXProduct_Required	lib/dbeng/products.mv	Database API
ProductList_Load_RelatedProducts_Offset_Assigned	lib/dbeng/products.mv	Database API
ProductList_Load_RelatedProducts_Offset_Unassigned	lib/dbeng/products.mv	Database API
ProductList_Load_Variant	lib/dbeng/productvariants.mv	Database API

Function	File Location/Feature	Module
ProductList_Update_Offsets	lib/dbeng/products.mv	Database API
Products_Update_Offsets_PastEnd	lib/dbeng/products.mv	Database API
ProductVariant_Decrement_Part_Count	lib/dbprim/productvariants.mv	Database API
ProductVariant_Delete	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_AttributeTemplateAttribute	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_AttributeTemplateOption	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_Product	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_Product_Attribute	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_Product_LowLevel	lib/dbprim/productvariants.mv	Database API
ProductVariant_Delete_All_Product_NotDefault	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_All_Product_NotDefault _LowLevel	lib/dbprim/productvariants.mv	Database API
ProductVariant_Delete_All_Product_Option	lib/dbeng/productvariants.mv	Database API
ProductVariant_Delete_LowLevel	lib/dbprim/productvariants.mv	Database API
ProductVariant_Generate	lib/dbeng/productvariants.mv	Database API
ProductVariant_Generate_Part	lib/dbeng/productvariants.mv	Database API
ProductVariant_Generate_Recursive	lib/dbeng/productvariants.mv	Database API
ProductVariant_Insert_Attributes	lib/dbeng/productvariants.mv	Database API
ProductVariant_Insert_LowLevel	lib/dbprim/productvariants.mv	Database API
ProductVariant_Is_Possible	lib/dbeng/productvariants.mv	Database API
ProductVariant_Load_Attributes	lib/dbeng/productvariants.mv	Database API
ProductVariant_Load_Attributes_WithInventory	lib/dbeng/productvariants.mv	Database API
ProductVariant_Read	lib/dbprim/productvariants.mv	Database API
ProductVariant_Sum_Pricing	lib/dbeng/productvariants.mv	Database API
ProductVariantList_Load_AttributeTemplateAttribute	lib/dbprim/productvariants.mv	Database API
ProductVariantList_Load_AttributeTemplateOption	lib/dbprim/productvariants.mv	Database API
ProductVariantList_Load_Part	lib/dbprim/productvariants.mv	Database API
ProductVariantList_Load_Product_Attribute	lib/dbprim/productvariants.mv	Database API
ProductVariantList_Load_Product_Option	lib/dbprim/productvariants.mv	Database API
ProductVariantPart_Delete_All_Part	lib/dbeng/productvariants.mv	Database API
ProductVariantPart_Delete_All_Part_LowLevel	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPart_Delete_All_Product	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPart_Delete_All_Product_NotDefault	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPart_Delete_All_Variant	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPart_Insert	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPart_Read	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPartList_Load_Part	lib/dbprim/productvariantparts.mv	Database API
ProductVariantPartList_Load_Variant	lib/dbprim/productvariantparts.mv	Database API

Function	File Location/Feature	Module
ProductVariantPricing_Delete_All_Product	lib/dbprim/productvariantpricing.mv	Database API
ProductVariantPricing_Delete_All_Product_NotDefault	lib/dbprim/productvariantpricing.mv	Database API
ProductVariantPricing_Delete_Variant	lib/dbprim/productvariantpricing.mv	Database API
ProductVariantPricing_Insert	lib/dbprim/productvariantpricing.mv	Database API
ProductVariantPricing_Load_Variant	lib/dbprim/productvariantpricing.mv	Database API
ProductVariantPricing_Read	lib/dbprim/productvariantpricing.mv	Database API
PRV_Action_Provision_Domain	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_AdminDisablingUpdate	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_Country_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_Country_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_Country_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_SEOSettings_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_Settings	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_StoreCreate	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_StoreDelete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_StoreUpdate	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_TrackingLink_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_TrackingLink_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_TrackingLink_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_UserAdd	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_UserDelete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Domain_UserUpdate	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Fragment	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Affiliate_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Affiliate_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Affiliate_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AffiliateEmailNotification _Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AffiliateLostPassword Email_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AffiliateOptions_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplate_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplate_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplate_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplateAttribute _Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplateAttribute _Delete	features/prv/prv_ad.mv	Provisioning System

Function	File Location/Feature	Module
PRV_Action_Provision_Store_AttributeTemplateAttribute _Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplateAttributeOption_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplateAttributeOption_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AttributeTemplateAttributeOption_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroup_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroup_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroup_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroupCategory _Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroupCategory _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroup Customer_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroup Customer_Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroupProduct _Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_AvailabilityGroupProduct _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Category_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Category_CustomField	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Category_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Category_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_CategoryProduct_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_CategoryProduct _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Countries_Replace	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Country	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Country_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Country_Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Customer_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Customer_CustomField	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Customer_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Customer_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_CustomerFields_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_CustomerLostPassword Email_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Encryption_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Encryption_Delete	features/prv/prv_ad.mv	Provisioning System

Function	File Location/Feature	Module
PRV_Action_Provision_Store_Encryption_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Group_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Group_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Group_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_GroupUser_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_GroupUser_Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_InventoryEmail Notification_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_InventoryProductSettings _Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_InventorySettings_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Item_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Item_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Item_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ItemExtension_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ItemExtension_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_MivaSubmitSettings _Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Module	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Order_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Order_Backorder_Items	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_OrderShipment_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_OrderShipment_SetStatus	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Page_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Page_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Page_Item	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Page_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PageItem_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PageItem_Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroup_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroup_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroup_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroupCustomer _Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroupCustomer _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroupProduct _Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_PriceGroupProduct _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Product_Add	features/prv/prv_ad.mv	Provisioning System

Function	File Location/Feature	Module
PRV_Action_Provision_Store_Product_CustomField	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Product_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Product_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttribute_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttribute_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttribute_Delete _All	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttribute_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttributeOption _Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttributeOption _Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttributeOption _Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttributeTemplate _Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductAttributeTemplate _Copy	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductKit_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductKit_Delete_All	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductKit_GenerateVariants	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductKit_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductRelatedProduct _Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductRelatedProduct _Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_Delete_All	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_DeleteDefault	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_Generate	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_ProductVariant_UpdateDefault	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_Skin_Select	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_State_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_State_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_State_DeleteAll	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_State_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_UpsellSettings_Update	features/prv/prv_ad.mv	Provisioning System

Function	File Location/Feature	Module
PRV_Action_Provision_Store_UpsoldProduct_Add	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_UpsoldProduct_Delete	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_UpsoldProduct_Update	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_UpsoldProductRequired Product_Assign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_Provision_Store_UpsoldProductRequired Product_Unassign	features/prv/prv_ad.mv	Provisioning System
PRV_Action_ProvisionEntireFile	features/prv/prv_ad.mv	Provisioning System
PRV_Action_ProvisionStringData	features/prv/prv_ad.mv	Provisioning System
PRV_Attribute_Boolean	features/prv/prv_ad.mv	Provisioning System
PRV_Attribute_List	features/prv/prv_ad.mv	Provisioning System
PRV_Attribute_Number	features/prv/prv_ad.mv	Provisioning System
PRV_Attribute_Text	features/prv/prv_ad.mv	Provisioning System
PRV_Backorder_ProductList	features/prv/prv_ad.mv	Provisioning System
PRV_ErroredStamp	features/prv/prv_ad.mv	Provisioning System
PRV_ExecutedStamp	features/prv/prv_ad.mv	Provisioning System
PRV_Frameset	features/prv/prv_ad.mv	Provisioning System
PRV_Inventory_PartList	features/prv/prv_ad.mv	Provisioning System
PRV_Inventory_ProductAttributeAndOptionList	features/prv/prv_ad.mv	Provisioning System
PRV_LogError	features/prv/prv_ad.mv	Provisioning System
PRV_LogMessage	features/prv/prv_ad.mv	Provisioning System
PRV_LogParseError	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Calculate_Charges	features/prv/prv_ad.mv	Provisioning System
PRV_Order_ChargeList	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Cleanup_Dummy_Basket	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Create_Dummy_Basket	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Item	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Item_OptionList	features/prv/prv_ad.mv	Provisioning System
PRV_Order_ItemList	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Product	features/prv/prv_ad.mv	Provisioning System
PRV_Order_Product_OptionList	features/prv/prv_ad.mv	Provisioning System
PRV_Order_TriggerFulfillmentModules	features/prv/prv_ad.mv	Provisioning System
PRV_OrderItem_InsertAttributes	features/prv/prv_ad.mv	Provisioning System
PRV_OrderItem_Split	features/prv/prv_ad.mv	Provisioning System
PRV_OrderShipment_ProductList	features/prv/prv_ad.mv	Provisioning System
PRV_ProvisionAsNeeded	features/prv/prv_ad.mv	Provisioning System
PRV_Screen_Info	features/prv/prv_ad.mv	Provisioning System
PRV_Screen_Work	features/prv/prv_ad.mv	Provisioning System
PRV_Status	features/prv/prv_ad.mv	Provisioning System

Function	File Location/Feature	Module
PRV_Tag_Boolean	features/prv/prv_ad.mv	Provisioning System
PRV_Tag_Code	features/prv/prv ad.mv	Provisioning System
PRV_Tag_Date	features/prv/prv ad.mv	Provisioning System
PRV_Tag_Exists	features/prv/prv ad.mv	Provisioning System
PRV_Tag_List	features/prv/prv ad.mv	Provisioning System
PRV_Tag_Number	features/prv/prv ad.mv	Provisioning System
PRV_Tag_Text	features/prv/prv ad.mv	Provisioning System
QuickSortArray	lib/util_public.mv	Helper Functions
QuickSortArray_Compare	lib/util public.mv	Helper Functions
QuickSortArray_Partition	lib/util public.mv	Helper Functions
QuickSortArray_Sort	lib/util public.mv	Helper Functions
QuickSortArray_Swap	lib/util public.mv	Helper Functions
RelatedProduct_Delete	features/rpd/rpd_db.mv	Related Products
RelatedProduct_Delete_Product	features/rpd/rpd_db.mv	Related Products
RelatedProduct_Insert	features/rpd/rpd db.mv	Related Products
RelatedProduct_Load_Product	features/rpd/rpd db.mv	Related Products
RelatedProduct_Read	features/rpd/rpd db.mv	Related Products
RelatedProduct_Update_Offsets	features/rpd/rpd_db.mv	Related Products
RelatedProduct_Update_Offsets_PastEnd	features/rpd/rpd_db.mv	Related Products
RelatedProduct_Update_Product	features/rpd/rpd_db.mv	Related Products
RelatedProductList_Customer_Load_Product	features/rpd/rpd_db.mv	Related Products
ReportModule_Calculate_DateRange_All	Feature report	Module API
ReportModule_Capabilities	Feature report	Module API
ReportModule_Chart_Type	Feature report	Module API
ReportModule_Display	Feature report	Module API
ReportModule_Export	Feature report	Module API
ReportModule_Field	Feature report	Module API
ReportModule_Fields	Feature report	Module API
ReportModule_Format_Vertical_Label	Feature report	Module API
ReportModule_HTML_Chart	Feature report	Module API
ReportModule_Invalid	Feature report	Module API
ReportModule_Prompt	Feature report	Module API
ReportModule_Provision_Settings	Feature report	Module API
ReportModule_Run	Feature report	Module API
ReportModule_Run_DateRange	Feature report	Module API
ReportModule_Run_Intervals	Feature report	Module API
ReportModule_SVG_Line_Chart_Definition	Feature report	Module API
ReportModule_Tabular_Definition	Feature report	Module API

Function	File Location/Feature	Module
ReportModule_Update	Feature report	Module API
ReportModule_Validate	Feature report	Module API
RPD_Store_Create	features/rpd/rpd_db.mv	Related Products
RPD_Store_Delete	features/rpd/rpd_db.mv	Related Products
Runtime_Basket_Empty	lib/dbeng/runtime.mv	Database API
Runtime_BasketItem_Delete	lib/dbeng/runtime.mv	Database API
Runtime_BasketItem_Delete_Transaction	lib/dbeng/runtime.mv	Database API
Runtime_BasketItem_Delete_Upsold	lib/dbeng/runtime.mv	Database API
Runtime_BasketItem_Increment_Quantity	lib/dbeng/runtime.mv	Database API
Runtime_BasketItem_Insert	lib/dbeng/runtime.mv	Database API
Runtime_Category_Load_Code	lib/dbeng/runtime.mv	Database API
Runtime_Category_Load_ID	lib/dbeng/runtime.mv	Database API
Runtime_CategoryList_Load_All	lib/dbeng/runtime.mv	Database API
Runtime_CategoryList_Load_Parent	lib/dbeng/runtime.mv	Database API
Runtime_PriceGroupList_Load_Product	lib/dbeng/runtime.mv	Database API
Runtime_Product_InventoryFields_Read	features/inv/inv_rt.mv	Inventory Runtime
Runtime_Product_Load_BasketItem	lib/dbeng/runtime.mv	Database API
Runtime_Product_Load_Code	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_All	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_Basket	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_Offset_All	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_Offset_Category	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_Offset_RelatedProducts	lib/dbeng/runtime.mv	Database API
Runtime_ProductList_Load_Offset_Search	lib/dbeng/runtime.mv	Database API
Runtime_UpsoldProductList_Load	features/usl/usl_db.mv	Upsale Database
SBM_CreateDataFiles	features/sbm/sbm_db.mv	Miva Submit
SBM_DeleteDataFiles	features/sbm/sbm_db.mv	Miva Submit
SBM_Domain_Pack	features/sbm/sbm_db.mv	Miva Submit
SBM_Store_Create	features/sbm/sbm_db.mv	Miva Submit
SBM_Store_Delete	features/sbm/sbm_db.mv	Miva Submit
Screen_CheckAll	admin/ui.mv	Administrative UI
Screen_CheckAllModified	admin/ui.mv	Administrative UI
Send_Email_Attachment	lib/util_public.mv	Helper Functions
SendEmail	lib/util_public.mv	Helper Functions
SendMimeEmail	lib/util_public.mv	Helper Functions
SEOSettings_Create	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Default_Values	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Insert	lib/dbprim/seo_settings.mv	Database API

Function	File Location/Feature	Module
SEOSettings_Load	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Normalize	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Read	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Sample_Product	lib/dbprim/seo_settings.mv	Database API
SEOSettings_Update	lib/dbprim/seo_settings.mv	Database API
SetCookie	lib/util_public.mv	Helper Functions
SetRuntimeCookies	lib/util_public.mv	Helper Functions
SetRuntimePaths	lib/util_public.mv	Helper Functions
ShippingModule_Basket_Methods	Feature shipping	Module API
ShippingModule_Calculate_Basket	Feature shipping	Module API
ShippingModule_Description	Feature shipping	Module API
ShippingModule_Enabled_Methods	Feature shipping	Module API
ShippingModule_Label_Boxes	Feature shipping_label	Module API
ShippingModule_Label_Field	Feature shipping_label	Module API
ShippingModule_Label_Fields	Feature shipping_label	Module API
ShippingModule_Label_Generate	Feature shipping_label	Module API
ShippingModule_Label_Invalid	Feature shipping_label	Module API
ShippingModule_Label_Methods	Feature shipping_label	Module API
ShippingModule_Label_Package_Field	Feature shipping_label	Module API
ShippingModule_Label_Package_Fields	Feature shipping_label	Module API
ShippingModule_Label_Package_Invalid	Feature shipping_label	Module API
ShippingModule_Label_Package_Prompt	Feature shipping_label	Module API
ShippingModule_Label_Package_Validate	Feature shipping_label	Module API
ShippingModule_Label_Package_Validate_Package	Feature shipping_label	Module API
ShippingModule_Label_Prompt	Feature shipping_label	Module API
ShippingModule_Label_Render	Feature shipping_label	Module API
ShippingModule_Label_Shipment_Field	Feature shipping_label	Module API
ShippingModule_Label_Shipment_Fields	Feature shipping_label	Module API
ShippingModule_Label_Shipment_Invalid	Feature shipping_label	Module API
ShippingModule_Label_Shipment_Prompt	Feature shipping_label	Module API
ShippingModule_Label_Shipment_Validate	Feature shipping_label	Module API
ShippingModule_Label_Validate	Feature shipping_label	Module API
ShippingModule_Label_Void_Shipment	Feature shipping_label	Module API
ShippingModule_Labels_Generate	Feature shipping_label	Module API
ShippingModule_Order_Content	Feature shipping	Module API
ShippingModule_Order_Delete	Feature shipping	Module API
ShippingModule_Order_Head	Feature shipping	Module API
ShippingModule_Order_Tabs	Feature shipping	Module API

Function	File Location/Feature	Module
ShippingModule_Order_Update	Feature shipping	Module API
ShippingModule_Order_Validate	Feature shipping	Module API
ShippingModule_Report_Fields	Feature shipping	Module API
ShippingModule_Report_Label	Feature shipping	Module API
ShippingModule_Report_Value	Feature shipping	Module API
ShippingModule_Shipping_Methods	Feature shipping	Module API
Show_BoldNA	admin/ui.mv	Administrative UI
Show_NA	admin/ui.mv	Administrative UI
_SKIN_Export	features/tui/tui_ut.mv	Template Utility
_SKIN_Install	features/tui/tui_ut.mv	Template Utility
SKIN_Cleanup	features/tui/tui_ut.mv	Template Utility
SKIN_Delete_ID	features/tui/tui_db.mv	Template Database
SKIN_Directory_Delete	features/tui/tui_ut.mv	Template Utility
SKIN_Directory_Verify	features/tui/tui_ut.mv	Template Utility
SKIN_Enabled	features/tui/tui_db.mv	Template Database
SKIN_Export	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Components	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Config	features/tui/tui_ut.mv	Template Utility
SKIN_Export_CSS	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Images	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Page_Items	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Page_Settings	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Pages	features/tui/tui_ut.mv	Template Utility
SKIN_Export_Remove_Assignment	features/tui/tui_ut.mv	Template Utility
SKIN_Export_RequiredItems	features/tui/tui_ut.mv	Template Utility
SKIN_Fix_Page_Settings	features/tui/tui_ut.mv	Template Utility
SKIN_Image_List	features/tui/tui_ut.mv	Template Utility
SKIN_Insert	features/tui/tui_db.mv	Template Database
SKIN_Install	features/tui/tui_ut.mv	Template Utility
SKIN_Install_Components	features/tui/tui_ut.mv	Template Utility
SKIN_Install_CSS_Files	features/tui/tui_ut.mv	Template Utility
SKIN_Install_Images	features/tui/tui_ut.mv	Template Utility
SKIN_Install_One_Component	features/tui/tui_ut.mv	Template Utility
SKIN_Install_One_Page	features/tui/tui_ut.mv	Template Utility
SKIN_Install_Pages	features/tui/tui_ut.mv	Template Utility
SKIN_Load_Code	features/tui/tui_db.mv	Template Database
SKIN_Lookup_TemplateID	features/tui/tui_ut.mv	Template Utility
SKIN_Preview	features/tui/tui_ut.mv	Template Utility

Function	File Location/Feature	Module
SKIN_Read	features/tui/tui_db.mv	Template Database
SKIN_Register	features/tui/tui_ut.mv	Template Utility
SKIN_Register_Unpacked	features/tui/tui_ut.mv	Template Utility
SKIN_Sample_Retrieve	features/tui/tui_ut.mv	Template Utility
SKIN_Store_Create	features/tui/tui_db.mv	Template Database
SKIN_Unpack	features/tui/tui_ut.mv	Template Utility
SKIN_Update	features/tui/tui_db.mv	Template Database
SKIN_Validate	features/tui/tui_ut.mv	Template Utility
SKINList_Load_All	features/tui/tui_db.mv	Template Database
SKINList_Load_All_Order	features/tui/tui_db.mv	Template Database
SKINList_Load_Offset	features/tui/tui_db.mv	Template Database
SkinsComponentModule_Description	Feature skins	Module API
SkinsComponentModule_Export	Feature skins	Module API
SkinsComponentModule_Export_Item	Feature skins	Module API
SortOffsetArray	lib/util_public.mv	Helper Functions
SortOffsetArray_PastEnd	lib/util_public.mv	Helper Functions
SQL_Search_Clause	lib/dbeng/sql.mv	Database API
STA_Store_Create	features/sta/sta_db.mv	Statistics
STA_Store_Delete	features/sta/sta_db.mv	Statistics
STA_Store_Reset	features/sta/sta_db.mv	Statistics
StandardFields_Insert	lib/dbprim/standardfields.mv	Database API
StandardFields_Load	lib/dbprim/standardfields.mv	Database API
StandardFields_Read	lib/dbprim/standardfields.mv	Database API
StandardFields_Update	lib/dbeng/fields.mv	Database API
StandardFields_Update_LowLevel	lib/dbprim/standardfields.mv	Database API
StandardFields_Validate	lib/util_public.mv	Helper Functions
StandardFields_Validate_NonOptional_Address	lib/util_public.mv	Helper Functions
StartMimeEmail	lib/util_public.mv	Helper Functions
State_Count	lib/dbprim/states.mv	Database API
State_Delete	lib/dbprim/states.mv	Database API
State_Insert	lib/dbprim/states.mv	Database API
State_Load_Code	lib/dbprim/states.mv	Database API
State_Read	lib/dbprim/states.mv	Database API
State_Select	lib/util_public.mv	Helper Functions
State_Select_US	lib/util_public.mv	Helper Functions
State_Select_US_Init	lib/util_public.mv	Helper Functions
State_Update	lib/dbprim/states.mv	Database API
StateList_Load_All	lib/dbprim/states.mv	Database API

Function	File Location/Feature	Module
StateList_Load_Offset	lib/dbeng/states.mv	Database API
Stats_Inc_Hits	features/sta/sta_db.mv	Statistics
Stats_Inc_Orders	features/sta/sta_db.mv	Statistics
Stats_Inc_Products	features/sta/sta_db.mv	Statistics
Stats_Inc_Revenue	features/sta/sta_db.mv	Statistics
Stats_Inc_Visits	features/sta/sta_db.mv	Statistics
Stats_Insert	features/sta/sta_db.mv	Statistics
Stats_Load	features/sta/sta_db.mv	Statistics
Stats_Read	features/sta/sta_db.mv	Statistics
Stats_Update	features/sta/sta_db.mv	Statistics
Stats_Update_Products_From_Basket	features/sta/sta_db.mv	Statistics
Store_Count	lib/dbprim/stores.mv	Database API
Store_Count_License	lib/dbprim/stores.mv	Database API
Store_Create	features/aff/aff_db.mv	Affiliate System
Store_Create	lib/dbeng/create_store.mv	Database API
Store_Create	features/usl/usl_db.mv	Upsale Database
Store_Delete	lib/dbeng/delete_store.mv	Database API
Store_Delete	features/usl/usl_db.mv	Upsale Database
Store_Delete_ID	lib/dbprim/stores.mv	Database API
Store_Insert	lib/dbprim/stores.mv	Database API
Store_Load_Code	lib/dbprim/stores.mv	Database API
Store_Load_ID	lib/dbprim/stores.mv	Database API
Store_Open	lib/dbeng/open.mv	Database API
Store_Read	lib/dbprim/stores.mv	Database API
Store_Update	lib/dbprim/stores.mv	Database API
Store_Update_Encryption	lib/dbprim/stores.mv	Database API
Store_Update_Modules	lib/dbprim/stores.mv	Database API
StoreCountry_Delete_All	lib/dbprim/storecountries.mv	Database API
StoreCountry_Delete_ID	lib/dbprim/storecountries.mv	Database API
StoreCountry_Insert	lib/dbprim/storecountries.mv	Database API
StoreCountry_Load_Alpha	lib/dbprim/storecountries.mv	Database API
StoreCountry_Load_ID	lib/dbprim/storecountries.mv	Database API
StoreCountry_Load_ISO_Code	lib/dbprim/storecountries.mv	Database API
StoreCountry_Read	lib/dbprim/storecountries.mv	Database API
StoreCountry_Select	lib/util_public.mv	Helper Functions
StoreCountryList_Load_All	lib/dbprim/storecountries.mv	Database API
StoreKey_Delete	lib/dbprim/storekeys.mv	Database API
StoreKey_Generate	lib/dbeng/keys.mv	Database API

Function	File Location/Feature	Module
StoreKey_Insert	lib/dbprim/storekeys.mv	Database API
StoreKey_Load	lib/dbprim/storekeys.mv	Database API
StoreKey_Read	lib/dbprim/storekeys.mv	Database API
StoreList_Load_All	lib/dbprim/stores.mv	Database API
StoreList_Load_User	lib/dbprim/stores.mv	Database API
StoreUIModule_Create_Frameworks	Feature storeui	Module API
StoreUIModule_Create_Items	Feature storeui	Module API
StoreUIModule_Create_Pages	Feature storeui	Module API
StoreUIModule_Dispatch	Feature storeui	Module API
StoreUIModule_Exception	Feature storeui	Module API
StoreUlModule_Thumbnail	Feature storeui	Module API
StoreUtilityModule_Action	Feature util	Module API
StoreUtilityModule_LeftNavigation	Feature util	Module API
StoreUtilityModule_Screen	Feature util	Module API
StoreUtilityModule_Validate	Feature util	Module API
StoreWizardModule_Action	Feature storewizard	Module API
StoreWizardModule_Content	Feature storewizard	Module API
StoreWizardModule_Icon	Feature storewizard	Module API
StoreWizardModule_Logo	Feature storewizard	Module API
StoreWizardModule_Privileges	Feature storewizard	Module API
StoreWizardModule_Title	Feature storewizard	Module API
StoreWizardModule_Validate	Feature storewizard	Module API
StoreWizardModule_Validate_Step	Feature storewizard	Module API
StructureMembers	lib/util_public.mv	Helper Functions
StyleSheet	admin/ui.mv	Administrative UI
Submit_Config_Insert	features/sbm/sbm_db.mv	Miva Submit
Submit_Config_Load	features/sbm/sbm_db.mv	Miva Submit
Submit_Config_Read	features/sbm/sbm_db.mv	Miva Submit
Submit_Config_Update	features/sbm/sbm_db.mv	Miva Submit
SystemModule_Action	Feature system	Module API
SystemModule_Screen	Feature system	Module API
SystemModule_UIException	Feature system	Module API
TaxModule_Calculate_Basket	Feature tax	Module API
TaxModule_Order_Field	Feature tax	Module API
TaxModule_Order_Fields	Feature tax	Module API
TaxModule_Order_Hide_Fields	Feature tax	Module API
TaxModule_Order_Invalid	Feature tax	Module API
TaxModule_Order_Prompt	Feature tax	Module API

Function	File Location/Feature	Module
TaxModule_Order_Required	Feature tax	Module API
TaxModule_Order_Validate	Feature tax	Module API
TaxModule_ProcessOrder	Feature tax	Module API
TemplateManager_Check_Export_Enabled	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Component_Prerender	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Component_Render_End	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Component_Render_Start	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Export_Path	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Immutable_ManagedTemplate Version	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ImportDest_Path	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Item	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Item_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Item_Module	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ItemExtension	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ItemExtension_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ManagedTemplate	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ManagedTemplate _NoDuplicates	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ManagedTemplateVersion	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_ManagedTemplateVersion _LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Page	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Page_Admin	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Create_Page_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Decrement_ReferenceCount _Transaction	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_All_ManagedTemplate_Files	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_All_Module_Items _Transaction	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_Item	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_ItemExtension	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_ManagedTemplate	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Delete_Page	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_Copy	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_ExternalFiles	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_Page	features/tui/tui_ut.mv	Template Utility
TemplateManager_Export_Settings_Create	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_Settings_Delete	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_Settings_Load	features/tui/tui_mgr.mv	Template Manager

Function	File Location/Feature	Module
TemplateManager_Export_Settings_Update	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Export_Template	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Get_Basehref_Path	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Get_Export_Path	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Import_Copy	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Import_ExternalFiles	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Import_Template	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Increment_ReferenceCount _Transaction	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Initialize_Item	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Initialize_Item_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Install_Template	features/tui/tui_mgr.mv	Template Manager
TemplateManager_ItemExtension_Sort_Swap	features/tui/tui_mgr.mv	Template Manager
TemplateManager_ManagedTemplate_Version_Select	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Page_Assign_Item	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Page_Assign_Item_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Page_Unassign_Item	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Render_Page	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Render_Page_Admin	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Render_Page_LowLevel	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Replace_ManagedTemplateVersion	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Reset_Exception	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Revert_ManagedTemplateVersion	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Throw_Exception	features/tui/tui_mgr.mv	Template Manager
TemplateManager_Update_Item	features/tui/tui_mgr.mv	Template Manager
Tokenize_Name	lib/util_public.mv	Helper Functions
TrackingLink_Delete	lib/dbprim/trackinglinks.mv	Database API
TrackingLink_Insert	lib/dbprim/trackinglinks.mv	Database API
TrackingLink_Load_Type	lib/dbprim/trackinglinks.mv	Database API
TrackingLink_Read	lib/dbprim/trackinglinks.mv	Database API
TrackingLink_Update	lib/dbprim/trackinglinks.mv	Database API
TrackingLinkList_Load_All	lib/dbprim/trackinglinks.mv	Database API
TrackingLinkList_Load_Offset	lib/dbeng/trackinglinks.mv	Database API
Trim_Boolean	admin/validate.mv	Administrative UI
TUI_CreateDataFiles	features/tui/tui_db.mv	Template Database
TUI_HTML_Parse_External_File_Source	features/tui/tui_mgr.mv	Template Manager
TUI_HTML_Parse_Tag_Attribute	features/tui/tui_mgr.mv	Template Manager
TUI_HTML_Tag_CharInsideQuotes	features/tui/tui_mgr.mv	Template Manager

Function	File Location/Feature	Module
TUI_Store_Create	features/tui/tui_db.mv	Template Database
TUI_Store_Delete	features/tui/tui_db.mv	Template Database
TUI_Strip_Leading_Slash	features/tui/tui_mgr.mv	Template Manager
UIException	/merchant.mv	Shopping Interface
UIModule_StoreSelection_Content	Feature storeselui	Module API
UIModule_StoreSelection_Render	Feature storeselui	Module API
UIModule_StoreSelection_Tabs	Feature storeselui	Module API
UIModule_StoreSelection_Thumbnail	Feature storeselui	Module API
UIModule_StoreSelection_Update	Feature storeselui	Module API
UIModule_StoreSelection_Validate	Feature storeselui	Module API
Unique_Code	lib/util_public.mv	Helper Functions
UpdateSessionID	lib/util_public.mv	Helper Functions
Upsell_Delete_Product	features/usl/usl_db.mv	Upsale Database
Upsell_Increment_Score	features/usl/usl_db.mv	Upsale Database
Upsell_Insert	features/usl/usl_db.mv	Upsale Database
Upsell_Insert_LowLevel	features/usl/usl_db.mv	Upsale Database
Upsell_Load_Eligible_ProductList	features/usl/usl_db.mv	Upsale Database
Upsell_Load_Product	features/usl/usl_db.mv	Upsale Database
Upsell_Price	features/usl/usl_rt.mv	Upsale Runtime
Upsell_Product_Read	features/usl/usl_db.mv	Upsale Database
Upsell_Read	features/usl/usl_db.mv	Upsale Database
Upsell_Reset_Score	features/usl/usl_db.mv	Upsale Database
Upsell_Update_Product	features/usl/usl_db.mv	Upsale Database
UpsellList_Load	features/usl/usl_db.mv	Upsale Database
UpsellList_Load_Offset	features/usl/usl_db.mv	Upsale Database
UpsellOptions_Insert	features/usl/usl_db.mv	Upsale Database
UpsellOptions_Load	features/usl/usl_db.mv	Upsale Database
UpsellOptions_Read	features/usl/usl_db.mv	Upsale Database
UpsellOptions_Update	features/usl/usl_db.mv	Upsale Database
UpsellProduct_Delete_ID	features/usl/usl_db.mv	Upsale Database
UpsellXProduct_Delete	features/usl/usl_db.mv	Upsale Database
UpsellXProduct_Insert	features/usl/usl_db.mv	Upsale Database
UpsellXProduct_Load	features/usl/usl_db.mv	Upsale Database
UpsellXProduct_Load_Basket	features/usl/usl_db.mv	Upsale Database
UpsellXProduct_Read	features/usl/usl_db.mv	Upsale Database
UpsellXProductList_Load_Product	features/usl/usl_db.mv	Upsale Database
v56_Address_Compatibility	/merchant.mv	Shopping Interface
v56_CustomerAddress_Compatibility	features/cus/cus_rt.mv	Customer Runtime

Function	File Location/Feature	Module
v56_Order_Create	lib/dbeng/orders.mv	Database API
v56_Order_Load_ID	lib/dbprim/orders.mv	Database API
v56_Order_Read	lib/dbprim/orders.mv	Database API
v56_Order_Update_Total	lib/dbprim/orders.mv	Database API
v56_OrderItem_Insert	lib/dbeng/orders.mv	Database API
v56_OrderItem_Update	lib/dbeng/orders.mv	Database API
Validate_CC_Mod10	admin/validate.mv	Administrative UI
Validate_Attributes	lib/util_public.mv	Helper Functions
Validate_Attributes_DetermineVariant	lib/util_public.mv	Helper Functions
Validate_Code	admin/validate.mv	Administrative UI
Validate_Code_NonBlank_Optional	admin/validate.mv	Administrative UI
Validate_Currency_NonNegative_Optional	admin/validate.mv	Administrative UI
Validate_Currency_NonNegative_Required	admin/validate.mv	Administrative UI
Validate_Currency_Optional	admin/validate.mv	Administrative UI
Validate_Currency_Required	admin/validate.mv	Administrative UI
Validate_Decimal	admin/validate.mv	Administrative UI
Validate_Email	admin/validate.mv	Administrative UI
Validate_Extension	admin/validate.mv	Administrative UI
Validate_FloatingPoint	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Length_NonNegative_Optional	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Length_NonNegative_Required	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Length_Positive_Optional	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Length_Positive_Required	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Length_Required	admin/validate.mv	Administrative UI
Validate_FloatingPoint_NonNegative_Optional	admin/validate.mv	Administrative UI
Validate_FloatingPoint_NonNegative_Required	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Optional	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Positive_Required	admin/validate.mv	Administrative UI
Validate_FloatingPoint_Required	admin/validate.mv	Administrative UI
Validate_Group_Name	admin/validate.mv	Administrative UI
Validate_Image_Extension	admin/validate.mv	Administrative UI
Validate_Login	admin/validate.mv	Administrative UI
Validate_Method_Length	admin/validate.mv	Administrative UI
Validate_Passphrase	admin/validate.mv	Administrative UI
Validate_Phone	admin/validate.mv	Administrative UI
Validate_WholeNumber	admin/validate.mv	Administrative UI
Validate_WholeNumber_NonNegative_Optional	admin/validate.mv	Administrative UI
Validate_WholeNumber_NonNegative_Required	admin/validate.mv	Administrative UI

# Appendix B: API Functions Miva Merchant Functions

Function	File Location/Feature	Module
Validate_WholeNumber_Optional	admin/validate.mv	Administrative UI
Validate_WholeNumber_Positive_Optional	admin/validate.mv	Administrative UI
Validate_WholeNumber_Positive_Required	admin/validate.mv	Administrative UI
Validate_WholeNumber_Range_Required	admin/validate.mv	Administrative UI
Validate_WholeNumber_Required	admin/validate.mv	Administrative UI
Validate_Zip	admin/validate.mv	Administrative UI
Wizard_BeginScreen	admin/wizardui.mv	Wizard UI
Wizard_EndScreen	admin/wizardui.mv	Wizard UI
Wizard_FieldError	admin/wizardui.mv	Wizard UI
Wizard_Module_FieldError	admin/wizardui.mv	Wizard UI
Wizard_Module_HideFields	admin/wizardui.mv	Wizard UI
Wizard_Update_Frames	admin/wizardui.mv	Wizard UI
WizardModule_Action	Feature wizard	Module API
WizardModule_Content	Feature wizard	Module API
WizardModule_Icon	Feature wizard	Module API
WizardModule_Logo	Feature wizard	Module API
WizardModule_Privileges	Feature wizard	Module API
WizardModule_Title	Feature wizard	Module API
WizardModule_Validate	Feature wizard	Module API
WizardModule_Validate_Step	Feature wizard	Module API
Zip_Validate	lib/util_public.mv	Helper Functions

## APPENDIX C Deprecated Elements

This appendix lists elements that have been removed from Miva Merchant since API version 5.00 PR5. These elements were deprecated in order to maintain backwards compatibility with previous versions of the software.

#### Appendix C: Deprecated Elements Fields

### *Fields*

- cmp\_mv\_stdorderfields::bill\_addr (replaced with bill\_addr1 and bill\_addr2)
- cmp\_mv\_stdorderfields::orderpayment\_id (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::pay\_data (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::pay\_id (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::pay\_secdat (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::pay\_secid (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::pay\_seckey (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::processed (used only with v5.5 PR6 compatibility layer)
- cmp\_mv\_stdorderfields::ship\_addr (replaced with ship\_addr1 and ship\_addr2)
- Order::bill\_addr (replaced with bill\_addr1 and bill\_addr2)
- Order::orderpayment\_id (used only with v5.5 PR6 compatibility layer)
- Order::pay\_data (used only with v5.5 PR6 compatibility layer)
- Order::pay\_id (used only with v5.5 PR6 compatibility layer)
- Order::pay\_secdat (used only with v5.5 PR6 compatibility layer)
- Order::pay\_secid (used only with v5.5 PR6 compatibility layer)
- Order::pay\_seckey (used only with v5.5 PR6 compatibility layer)
- Order::processed (used only with v5.5 PR6 compatibility layer)
- Order::ship\_addr (replaced with ship\_addr1 and ship\_addr2)

### Files

features/sbm/sbm\_db.mv

### **Functions**

- Decrypt\_Order (replaced with Decrypt\_OrderPayment)
- Decrypt\_Payment (replaced with Decrypt\_OrderPayment)
- Module\_Order\_Delete (replaced with Module\_Order\_Delete\_Order)
- PaymentModule\_Authorize (replaced with PaymentModule\_Runtime\_Authorize)
- PaymentModule\_Process (replaced with PaymentModule\_OrderPayment\_Capture)
- SBM CreateDataFiles
- SBM\_DeleteDataFiles
- SBM\_Domain\_Pack
- SBM\_Store\_Create
- SBM Store Delete
- ShippingModule\_Label\_Field (replaced with ShippingModule\_Label\_Shipment\_Field)
- ShippingModule\_Label\_Fields (replaced with ShippingModule\_Label\_Shipment\_Fields)
- ShippingModule Label Generate (replaced with ShippingModule Labels Generate)
- ShippingModule\_Label\_Invalid (replaced with ShippingModule\_Label\_Shipment\_Invalid)
- ShippingModule\_Label\_Package\_Validate (replaced with ShippingModule\_Label\_Package\_Validate\_Package)
- ShippingModule\_Label\_Prompt (replaced with ShippingModule\_Label\_Shipment\_Prompt)
- ShippingModule\_Label\_Validate (replaced with ShippingModule\_Label\_Shipment\_Validate)
- ShippingModule\_Shipping\_Methods (replaced with ShippingModule\_Basket\_Methods)
- SkinsComponentModule\_Export (replaced with SkinsComponentModule\_Export\_Item)
- Submit\_Config\_Insert
- Submit\_Config\_Load
- Submit Config Read
- Submit\_Config\_Update
- Validate\_Attributes (replaced with Validate\_Attributes\_DetermineVariant)

Appendix C: Deprecated Elements Functions

## APPENDIX D Deleting Orders

The XXX\_Order\_Delete functions (Module\_Order\_Delete, PaymentModule\_Order\_Delete and ShippingModule\_Order\_Delete) are called from the Order Edit and Batch Edit screens. These three functions use the single parameter, module var, to pass orders to the module. This means that the web developer must examine the page state (i.e., the global variables) to determine exactly which orders are being deleted.

**Note:** Module\_Order\_Delete was deprecated and should only be used to ensure compatibility with older versions of Miva Merchant. For API versions 5.51 and above, use Module\_Order\_Delete\_Order instead.

On the Order Edit screen, **g.Edit\_Order** will contain the ID of the order being deleted. On the Order Batch Edit screen you must examine the arrays **g.Order\_Remove[]** and **g.Order\_ID[]**.

### Miva Script Code Example

The following code example demonstrates the logic for deleting orders via the **XXX\_Order\_Delete** functions (**Module\_Order\_Delete**, **PaymentModule\_Order\_Delete** and **ShippingModule\_Order\_Delete**). Use this example as a guide for determining how orders are deleted.

```
<MvCOMMENT>The top three conditionals below test from where the order is being
 deleted</MvCOMMENT>
<MvIF EXPR = "{ len( g.Edit Order ) GT 0 }">
    <MvCOMMENT>Delete an order from the Edit Order screen./MvCOMMENT>
    <MvCOMMENT>g.Edit_Order is the ID of the order that's being removed
     </MvCOMMENT>
    <MvIF EXPR = "{ NOT [ g.Module_Library_DB ].Order_Load_ID( g.Edit_Order,</pre>
     1.order ) }">
        <MvFUNCTIONRETURN VALUE = 0>
    </MVIF>
    <MvCOMMENT>
        Delete Module Order Data code goes here.
        Ex: <MvASSIGN NAME = "1.delete order" VALUE = "{ MyModule Delete Order
         ( l.order:id ) }">
    </MvCOMMENT>
<MvELSEIF EXPR = "{ g.Order_Count GT 0 }">
    <MvCOMMENT>Delete orders from the Order Batch Edit screen./MvCOMMENT>
    <MvCOMMENT>Since Module_Order_Delete is called for each order that should be
     removed, the code below ensures we only run it once.</MvCOMMENT>
    <MvIF EXPR = "{ g.Module Remove Order }">
        <MvFUNCTIONRETURN VALUE = 1>
    <MvELSE>
        <MvASSIGN NAME = "g.Module_Remove_Order" VALUE = 1>
    </MVIF>
<MvCOMMENT>This code is responsible for deleting the module data of each order
</MVCOMMENT>
    <MvASSIGN NAME = "l.ord pos" VALUE = 1>
    <MvWHILE EXPR = "{ ( l.ord_pos LE g.Order_Count ) }">
        <MvCOMMENT>Check the status of each Order Remove checkbox</mvCOMMENT>
        <MvIF EXPR = "{ g.Order Remove[ l.ord pos ] }">
             <MvCOMMENT>If the order should be removed; load the order data into
              1.order (structure) < /MvCOMMENT>
             <MvIF EXPR = "{ NOT [ g.Module Library DB ].Order Load ID( g.Order ID</pre>
              [ l.ord pos ], l.order ) }">
                 <MvFUNCTIONRETURN VALUE = 0>
             </MVIF>
```

```
<MvCOMMENT>
                 Delete Module Order Data code goes here.
                 Ex: <MvASSIGN NAME = "l.delete order" VALUE =
                  "{ MyModule Delete Order( l.order:id ) }">
             </MvCOMMENT>
        </MVIF>
        <MvASSIGN NAME = "1.ord pos" VALUE = "{ 1.ord pos + 1 }">
    </MVWHTLE>
<MvELSEIF EXPR = "{ g.StoreBatch_Count GT 0 }">
    <MvCOMMENT>Delete orders from the Batches Batch Edit screen.</MvCOMMENT>
    <MvCOMMENT>Since Module Order Delete is called for each order that should be
     removed, the code below ensures we only run it once.</MvCOMMENT>
    <MvIF EXPR = "{ g.Module Remove Order }">
        <MvFUNCTIONRETURN VALUE = 1>
        <MvASSIGN NAME = "g.Module_Remove_Order" VALUE = 1>
    </MVIF>
<MvCOMMENT>This code is responsible for deleting the module data of each order
</MVCOMMENT>
    <MvASSIGN NAME = "l.batch pos" VALUE = 1>
    <MvWHILE EXPR = "{ l.batch_pos LE g.StoreBatch_Count }">
        <MvCOMMENT>Check the status of each Batch Remove checkbox</MvCOMMENT>
        <MvIF EXPR = "{ g.StoreBatch Remove[ l.batch pos ] }">
             <MvCOMMENT>If the order should be removed; load the batch record into
              1.batch (structure) < /MvCOMMENT>
            <MvIF EXPR = "{ [ g.Module Library DB ].Batch Load ID(</pre>
              StoreBatch Remove ID[ 1.batch pos ], 1.batch ) }">
                 <MvCOMMENT>Load the order list into l.order (array of
                  structures) < /MvCOMMENT>
                 <MvDO FILE = "{ g.Module Library DB }" NAME = "l.order count"
                  VALUE = "{ OrderList_Load_Batch( l.batch:id, l.order ) }">
                 <MvASSIGN NAME = "1.pos" VALUE = 1>
                 <MvWHILE EXPR = "{ l.pos LE l.order_count }">
                     <MvCOMMENT>
                         Delete Module Order Data code goes here.
                         Ex: <MvASSIGN NAME = "l.delete order" VALUE =
                          "{ MyModule_Delete_Order( l.order[ l.pos ]:id ) }">
                     </MVCOMMENT>
```

## Appendix D: Deleting Orders *Miva Script Code Example*

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